DENON

Hi-Fi Component

SERVICE MANUAL MODEL DRM-740 STEREO CASSETTE TAPE DECK



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NIPPON COLUMBIA CO., LTD.

MPORTANT TO SAFETY

WARNING:

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

CAUTION

Handle the power supply cord earefully.

Do not dramage or deform the power supply cord. If it is damaged or deformed, it may cause electric shock or malfunction when used When removing it from walf outlet. Be sure to remove by holding the plug attachment and not by pulling the cord

In order to prevent electric shock, do not open the top cover If problems occur, contact your DENON DEALER Do not place anything inside Do not open the top cover

Do not place metal objects or spill liquid inside the cassette tape deck Electric shock or malfunction may result. Please, record and retain the Model name and serial number of your set shown on the rating label. Serial No. Model No. DRM-740



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK), NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PRESONNEL.



The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user of the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to

The exclamation point within an equilateral triangle is intended to alert the user of the presence of important operating and maintenance (servicing) instruction in the literature accompanying the applicativation in the literature accompanying the app

FOR U.S.A. & CANADA MODEL ONLY

TO PREVENT ELECTRIC SHOCK DO NOT USE THIS POLARIZED) PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER DUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

POUR LES MODELES AMERICAINS ET CANADIENS UNIQUEMENT

ATTENTION

POUR PREVENIR LES CHOCS ELECTRIQUES NE PAS UTILISER CETTE COMEANT OU UNE AUTHE SORTIE DE COURANT, SAUS SI LES ALONG SANS EN L'AISSER AUCHE PRAIRE SURFIERES A FOND SANS EN L'AISSER AUCHE PRAIRE SA FOND SANS EN L'AISSER AUCHNE PARTIE A BOCOUVERT.

SAFETY INSTRUCTIONS Read Instructions - All the safety and operating instructions should be read before the appliance is

Retain Instructions - The safety and operating instructions should be retained for future reference.

Heed Warnings – All warnings on the appliance and in the operating instructions should be adhered to.

Follow Instructions - All operating and use instruc-

tions should be followed.

Water and Moisture – The appliance should not be used near waster – for example, mear a bathub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, and the like. Carts and Stands - The appliance should be used only with a cart or stand that is recommended by the

v. An appliance and cart combination should be moved with care. Quick manufacturer. ę¥



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the appliance and cart combination to overturn. surfaces may causi stops, excessive force, and uneven

Wall or Ceiling Mounting - The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.

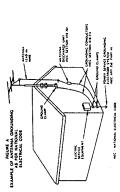
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Ventilation – The appliance should be situated so that is location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings; or placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.

Heat – The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.

Power Sources - The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the apõ

Grounding or Polarization – Precautions should be taken so that the grounding or polarization means of an appliance is not defeated. Ξ



Power-Cord Protection – Power-supply cords should be routed so that they are not likely to be waited on or pinched by items placed upon or against them. paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance. 15

Cleaning - The appliance should be cleaned only as recommended by the manufacturer.

4.

Power Lines – An outdoor antenna should be located away from power lines. 15.

connected to the receiver, be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges. Article B10 of the National Electrical Code, ANSI/NFPA 70 provides information with regard to proper grounding of the mast and supporting structure, grounding of the leadfin wire to an antennadischarge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes. See Figure A. Outdoor Antenna Grounding - If an outside antenna <u>.</u>

Nonuse Periods – The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.

Object and Liquid Entry - Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings. Damage Requiring Service - The appliance should be serviced by qualified service personnel when:

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A. The power-supply cord or the plug has been damaged; or

B. Objects have fallen, or liquid has been spilled into the appliance; or

C. The appliance has been exposed to rain; or

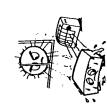
D. The appliance does not appear to operate normal-ly or exhibits a marked change in performance; or E. The appliance has been dropped, or the enclosure Servicing – The user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.

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NOTE ON USE/OBSERVATIONS RELATIVES A L'UTILISATION/NOTAS SOBRE EL USO

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 Do not let foreign objects in the set.
 Ne pas laisser des objets étrangers No deje objetos extraños dentro

Protéger l'appareil contre l'humidi-

water, and dust.

Keep the set free from moisture,

Mantenga el equipo libre de hume-

dad, agua y polvo.

té, l'eau et la poussière.

dans l'appareil.

del equipo.

- Allow for sufficient heat dispersion Avoid high temperatures
- Tenir compte d'une dispersion de chafeur suffisante fors de l'installa-Eviter des températures élevées when installed on a rack.
- Permite la suficiente dispersión del Evite altas temperaturas tion sur une étagère.

cator cuando está instalado en la-



 Unplug the power cord when not using the set for long periods of

Do not let insecticides, benzene,

and thinner come in contact with

ticides, du benzène et un diluant No permita el contacto de insectici-

avec l'appareil.

Ne pas mettre en contact des insec

the set.

- Debrancher le cordon d'alimenta-tion lorsque l'appareil n'est pas utilisé pendant de longues pé-
 - Desconecte el cordón de energia cuando no utilice el equipo por mucho tiempo.



Manipuler le cordon d'alimentation

Hold the plug when unplugging the

Handle the power cord carefully.

Ne pas obstruer les trous d'aéra-

No obstruya los orificios de ventila-

Do not obstruct the ventilation

Maneje el cordón de energía con Sostenga el enchufe cuando des-

conecte el cordón de energía.

Tenir la prise lors du débranche-

ment du cordon. avec précaution.

holes.

Nunca desarme o modifique el l'appareil d'une manière ou d'une

equipo de ninguna manera.

das, gasolina y diluyentes con el equipo.



- Never disassemble or modify the
- set in any way.

 Ne jamais démonter ou modifier

Thank you very much for purchasing the DENON component stereo

Please check to make sure the following items are included with the main unit in the carton:

Operating Instructions ...

Mini-Plug Cable

5 5 6

cassette tape deck.
DEMON proudly presents this advanced tape deck to audiophiles and
music lovers as a further proof of DEMON's non-compromising pursuit of
music lovers as a further proof of DEMON's non-compromising pursuit
music lovers as a further proof quality. The high quality performance and assy
operation are certain to provide you with many hours of outstanding istening pleasure

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Dual power supply Three-head design utilities the record/playback combination head

Non-slip reel drive for stabilizing tape tension Closed-loop dual-capsian tape transpor

Computing linear tape counter with 4-digit readout and memory stop

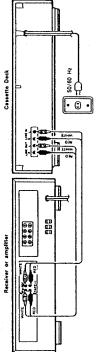
CONNECTION

- Leave your entire system (including this cassette deck) turned off until all connections between the deck and other components have been made.
- Connecting the Deck to an Amptifier

 Before connecting the deck to var implifier, it is agood practice to review your amplifier's instruction manual.

 Use the white blugs for the left channel, and the red plugs for the right channel.
- Tae Oubbing

 Many sterce anglifers and receivers have tape dubbing circuity so
 that taps doptication can be performed between two or more tape
 decks. Rever your amplifiers instruction manual for a full
 explanation of this mode of operation.



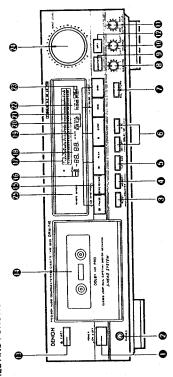
Systems Remote Control Each O'PLAY, FF, BRW, STOP, REC/REC MUTE and PAUSE* functions can be remote controlled with the wireless handset of the receiver (IDAs series receivers to 15).

Connecting Headphones
To listen through headphones, plug your headphones into the PHONES jack.

Interaction processions in the control of the contr

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NAMES AND FUNCTIONS OF PARTS



POWER switch
Control in supply of AC power to the deck. One push turns the
deck on, a second push turns it off. The deck remains in a stand-by
Iton-poserative I mode for approximately 2 seconds after it is 0

PHONES jack

For private music enjoyment without disturbing others, or for monitoring a recording, a set of headphones may be plugged in impedance should be from 8 to 1200 ohms. 0

COUNTER RESET button Operation of the button resets the counter to all zero.

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9 9 •

> During rewinding operations, the tape will stop at the "0000" counter point automatically when this button is pressed in.
>
> THE SIZE button You can know accurate elegated time of the table by adjusting the LFAE SIZE button to the tage size used. When the TAPE SIZE button is pressed, the current tape size is displayed for 1 sec in the disputes counter. If you further press the purion during the display, the tape size will change in the following cycle.

- <u>6.30</u> - <u>6.75</u> - <u>6.60</u> - <u>6.100</u> -

Θ

DOLBY NR button
When his Hersber BOLBY NR button is pressed once with DOLBY
When his Hersber BOLBY NR BATYPE is preferred and
build at the "ON" state DOLBY NR BATYPE is preferred and
Hard on. Even A nime when the rightis REC RETURN button When this button is presse

in this button is pressed at the recording state, the tape is bound to the starting point. When the starting point is automationed the record standby mode free pause statel comes.

BIAS control

0

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for NORMAL, CrO, and METAL tape)
Adjust the bias according to the tape characteristics.
Standard biasing is obtained at the center dick-stop position.

(3)

MONITOR button of this button allows you to monitor the source boards. It is recorded. The TARE position of this source is regard for time recorded. The TARE position of this monitoring or simultaneous monitoring during recording. Θ

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8

This is the knob to adjust the recording level balance between the attack of get themsels. Twin to counter-clockwise to reduce the right channel's there and clockwise to reduce the left channel's. Usually, put the knob at the center click position. BALANCE control This is the knob to adju 9

OUTPUT LEVEL control
This control adjusts playback, recording monitor, and headphones
output levels for the both channels simultaneously. e

MPX filter button
May Rittle Button should be used to prevent interference with
the Golby Wil circuit when making Dolby NN encoded recordings of
Mistereo programs.
When making Dolby NR encoded recordings from any program
source other han PM stereo, leave this button in the "OFF".

9

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EJECT button
Press this button of elect the cassette. When the deck is operating
trape is running, press the stop (# 8) button first to stop the tape
transport, then press the EJECT button.

Cassette compartment cover is this completely, the deck's it his comparent cover is not closed completely, the deck's transport controls will remain inoperative.

PLAY, PAUSE and REC indicator When the PLAY, REC PAUSE and REC buttons are pressed, this

Fluorescent peak meters
These meres indicate recording to playback peak levels for each
channel. Meters exceeding "JVBs, the Auto Peak Hold
channel holds the peak levels exceeding JvBs, the Auto Peak Hold
Fautue holds the peak level reading for approximately 1 seconds.

Linear tape counter Tape-passage is indicated digitally in minutes and seconds.

9 9

MEMORY Indicator
This indicator light is interlocked with the memory stop button

FILTER indicator This indicator light is interlocked with the MPX FILTER button. (FILTER) 8

NR system indicator
This indicator light is interlocked with the DOLBY NR button and informs the user that DOLBY NR is in use as well as which B-TYPE or C-TYPE.

8

TAPE select indicator
This indicator in indicator in INPE I INPE IN INPE INFORMER

MONITOR indicator
This indicator light is interlocked with the MONITOR button to inform the use of the selected monitoring source - TAPE or INPUT LEVEL control

REMOTE SENSOR
This sensor receives the infrared light transmitted from the wireless The recording input level is adjusted by this knob. The levels in the left and right channels can be changed simultaneously. 3

remote control unit. For remote control point the wireless remote control unit at the serior.

Tape transport controls

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| ▶ PLAY | Play button | Press to playback table. |
|--------------|--------------------|--|
| ■ STOP | Stop button | Press to stop tape in any mode. |
| ¥ | REW button | Press for fast rewind. |
| # | FF button | Press for fast forward tape winding. |
| REC/REC MUTE | RECORD/MUTE button | To begin recording press the RECORD and PLAY button dimitalseesus, if only the RECORD button is present his exert is placed in the REC PALISE (record standby) mode. When this button is pressed his refeE PALISE state the mode shifts to the Auto Rie Mules. When this button is pressed from raking a non-recorded set is the mode shifts to the Auto Rie Mules. When this button is pressed for making a non-recorded set is the mode shifts to a summarically be created. |
| II PAUSE | PAUSE button | Press this button to enter the recording pause mode from the recording or recording mule mode. Press this button to enter the playback pause mode from playback mode. |

CASSETTE TAPES

■ Handling Precautions

• C120 cassettes

• C120 cassettes are not recommended as they use a very thin tape base

• C120 cassette are not recommended as they use a very thin tape base

• Name Annual Precome langled around the capasian or profitfoller.

• Tape stork

 Magnetic fields (near TV sets or speakers)
 To eliminate tape stack, store your cassettes in cassette cases with hub stops. Do not store cassette tapes in a place where they will be subject to:
- Extremely high temperature or excessive moisture
- Excessive dust

Storage Precautions

A Accidental Ersaure Prevention tab for each side.

• Every Casset is seave prevention tab for each side.

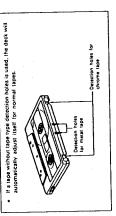
• Forget your valuable recorded taboat from accidental or indivertent respect your valuable recorded taboat from accidental or indivertent respect to the tab for the appropriate side with a screwdriver or other tools.

• To reced on a tape with the easure prevention tabs removed, cover the tab hotes with pastic labe.



AUTO TAPE SELECT FEATURE

This Stereo Cassette Oeck contains an Auto Tape Select feature which automatically selects the optimum bias and equalization for the tape in use. This is accomplished by detection of lape type detection holes in the casset



- Switch on your amplifier or receiver.
 Set the TAPE MONITOR switch on your amplifier or receiver to the TAPE position.
- 5-88.88. This backer all a print a branche and a grant and a gr -@ -[] @ ANTER CALINA MORE AND STREET 50487 HX PRO DENON Ø.

0 0 **©**

PHONES
Playback sound is fed into the headphone; set.

Push the switch to turn "ON" (-) the power POWER

Press the EJECT button to open the cassette compartment. EJECT

Cassette Compartment Cover Load the CASSETTE TAPE. 0

DOLBY NR 9

For recording made without Dolby NR, set to "OFF". For recording made with Dolby B NR, set to "B". (The B-TYPE indicator will light up.)
For recordings made with Dolby C NR, set to "C". (The C-TYPE indicator will light up.)

©

▶ PLAY

Hand the PLAY KEY (The ▶ PLAY indicator will light up).

• When playbect is finished, press the stop (IB STOP) button.

• To restant the tabe, press the PLAY (I▶ PLAY) button.

• If different upper of Dolby Noise Reduction are used for record and playback, playback response will be adversely effected.

OUTPUT Check to make sure the OUTPUT LEVEL.

Note:

The power switch is turned OFF in either the recording or playback mode, the casestre cannot be removed, even if the EJECT button is present.

Please turn the power switch ON again, and then is stop mode, press the EJECT button to remove the cassette lape.

■ MUSIC SEARCH SYSTEM

This device is a convenient system which detests has non-seconded part of more thank a second between melodis, cues the man melody while the present melody is being reproduced or automatically detects the beginning of the melody now being reproduced and makes it into the reproduceable shade.

For cueing the next melody while the present melody is being reproduced:

At PLAY mode, depress the PLAY button and the FF button simul-taneously. This device will direct the interval between melodies with the CLE state on, automatically become the PLAY mode and begin performing the next melody.

for hearing again the melody being reproduced:
At PLAY mode, depenses the PLAX button and in REW button
simultaneously. This device will detect the interval between melodies
with the REVIEW state on, automatically become the PLAX mode,
detect the beginning of the melody now being performed and play it
from the first again.

Note: Note about MUSIC SEARCH section: WUSIC SEARCH is a function which operates by detecting a comparativety long non-recorded part on the uper. Therefore, MUSIC SEARCH may not operate normally in the following cases:

• Sound on the tape is interrupted by speech or conversation.

• Long periods of paintainno teothy played music or non-recorded intervals cour on the tape.

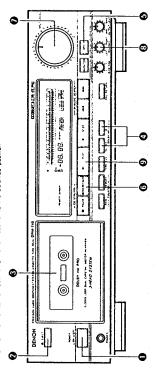
• The tape has picked up notise in a non-recorded interval.

• Non-recorded intervals on the tape are less than 4 seconds in length.

• Non-recorded intervals on the tape are less than 4 seconds in length.

RECORDING

- Switch on the source component Ituner, amplifier, etc.).
 Set the TAPE MONITOR switch on your amplifier or receiver to the SOURCE position



■ PROPER RECORDING LEVEL Push the switch to turn "ON" (-) the power.

POWER

0

A too high recording level can salurate the tape and cause distortion. On the other hand, in the recording their is set to low, soft passages will be marked by residual noise. A proper recording level is the single most important factor for making well balanced recordings.

EJECT Press the EJECT button to open the cassette compartment.

Cassette Compartment Cover (Make sure the erasure prevention tab has not been removed from the cassette shell half.)

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Guideline for maximum recording level

TYPE I (Normal) TYPE IV (Metal)

TYPE II (CrO,)

DOLBY NR 0

In accordance with the reaction to be made for in accordange with Doby NR, as to "OFF". For recordings with Doby NR, as to "OFF". For recordings with Doby C NR, as to "OF The C-TYPE indication will light up. For the corrupt with Dobby C NR, as to "OF The C-TYPE indication will light up. For the major of the case and the casestte is so marked for Dobby NR encoded recordings.

Make trial recordings using the simultaneous monitoring. Refer to the description under "MONITOR" Button.

Meter reading differences between Left and Right channels.
The till and right channel readings of the Peat Level Meter can offer due to Variations in the imput signal levels. In such cases, use the BALANCE control to signal the Anniel more than a series of the Control to signal the Anniel more balance until identical meter readings are obtained for both channels.

Note: Optimum recording levels can differ depending on program sources or the type of tape used.

+5 dB level on peaks ·1 dB fevel on peaks ·3 dB level on peaks

MPX FILTER

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Button it "ON" for the DOLBY NR recording of FM broadcasts (The FILTER indicator will light up).

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● REC/REC MUTE
When pressed, the dest goes into the record standby mode. The ●
REC and it indication will light.
REC and it indication will light.
standla reting of recording levels should be made in the record
standby mode.

When you want to make about 5 sec of non-recorded part after the recording state:
Press the RECARE MUTE button. The recorder will abutomatically create about 5 sec of non-recorded part and will stey in the recording

standby state.

M REC/REC MUTE BUTTON

To create about 5 sec of non-recorded part after the standby state. Press the RECAREO WITE button, and the recorder will enter the monrecording state, automatically create about 5 sec of non-recorded part and stay in the standby state. To cancel the non-recording state (the REC MUTE state): Press the PAUSE button, and the recorder will cancel the non-recording To extend the non-recording state (the REC MUTE state) for further 5 sec or more:
Press the REC/REC MUTE button, and the non-recorded part will automatically be extended for another 5 sec.

state and will stay in the standby state.

INPUT LEVEL Used to set the recording level. BALANCE 0 0

Adjust the recording level balance between the left and right channels

► PLAY When pressed, the recording will start. (The ► and ● REC indicators will light up).

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Caution:
Be careful not to erase important recordings by mistake.
Be served on to eabolded by following the two steps below:
1. If the PLAY (₱ PLAY) button is pressed while the ● REC indicator is on.

In Interface will be recorded.

2. If the RAY (P. RAY) and RECORD (e. REC) button are pressed at the same time, the tape will be recorded.

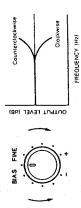
8. REC RETURN Button
Use of the recording term function is convenient when re-recording or when carnelling a recording. When pressed during recording the tape is rewound to the position where recording started, and the deck will enter the recording standby mode.
When recording is finished, press the STOP (# STOP) button. O

■ RECORDING BIAS ADJUSTMENT
For best recording result, immoliring during recording and comparing different recordings using your own judgment are essential.

Gifferent recordings using your own judgment are essential.

Fine DRIVING vassetts decide to suicine, with a BiAS fife Control to assist you in setting the proper bas for different yopes and brands of assist you in setting the proper bas for different yopes and brands of tape. At the enter stooplect, bosition, the decit is set to the reference bas sevel for Normal, CA), and Metal tape. If the resulting recording in this passion has so on man, or to only only the properties sound are not be settler results. If the Night frequenciest (treats sounds are to be boosted, turn the BIAS FINE control counter-clockwise to decrease the bas current. Turn the control counter-clockwise to decrease the bas current. Turn the control counter-clockwise to orcease bas current.

By the use of this control, you can record tapes with a frequency response that will perfectly match your listening taste.



SYNCHRONIZED RECORDING FUNCTION ...

CD player 10

- Convenient synchronized recording can be performed when used in combination with a DENON CD player equipped for the synchronized recording function.

 SynCHRO Jack Connection Connect the SYNCHRO Jack with a DENON CD player which is equipped with a SYNCHRO Jack, then make a synchronized recording. Use the connection cord supplied with this cassette deck.
 - cassure voc... settich on your amplifier or receiver and the CD player. Set the tape Monitor switch on your amplifier or receiver to the source

- D. Load the tape, the disc you want to record into the CD player.

 D. Following the resconding instructions on hape 9. set the Doby NR mode, and the input level.

 D. Set the CO player to the stop or pease mode.

 D. Peass the REC/REC MUTE (iii) button and REC PAUSE (III) button simultaneously. The essente deck and Op pieze are submissibly set to the synchronized recording mode. The "I' indicator lishing so nhe cassette deck and Op pieze are submissibly set to the synchronized recording mode to indicator lishing so nhe CD player.

 D. player.

 D. to synchronized recording mode is cancelled for both the cassette deck and other conding mode is cancelled for both the cassette deck and other cassette deck and other cassette deck and other cassette (iv both the cassette of the synchronized recording mode is cancelled for both the cassette deck and other deck and other deck and on the tape, after the CD player.

 D. Supperv. A Supervious butter mode is set the late. In the late, which the tractioning pause mode is set. The "I'm classed that the D player.

 To resume synchronized recording, press the PLAY button on the CD player.

[]• 1.0

- Note:

 I synchronized recording is started when the CD player is in a mode on the synchronized recording is started when no disc is set, the "#" indeator on the castest deck flastes and the recording pause mode is indeator out the casted recording is possible on the CD player.

 In the synchronized recording mode, only, the STOP button will
- Cuvilion:

 Duries are the casente deck to the synchronized recording mode when the CD player is in the play mode. Also, do not turn off the power of the casester deck or the CD player during synchronized recording. Doing so can result in mailunction. The control of the editing functions on the CD player, be sure to select a sape with a sufficiently long recording. time. For the CD player's editing functions, refer to the CD player's operating

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used to occuse a particular point on the tape. At the desired point, reset the counter or '00 00'. With the KIRADRY STOP button in the 'OW' position, the deck will stop at the '00.00' point (security '-00.02' and '00.00') and '00.00' and '00.00'. The MEMORY indication will light when this function is activated. MEMORY STOP Operation (1) During recording or playback operations, MEMORY STOP can be

- (2) The MEMORY indication will light wner an runner. (3) Notes:

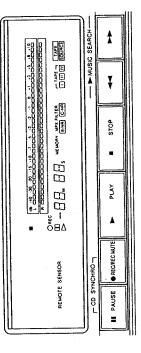
 When the power is turned "OFF", this function is automatically
- descivered.

 The MELVORY STOP is accurate to –5 on the counter, and will stop between Odd at and fat day.

 The MEMORY STOP is released by pressing the E.ECT button.

 The MEMORY STOP does not operate during the REC RECTURN.
- The functions DOLBY NR, MPX FILTER, MONITOR and TAPE SIZE
 The functions DOLBY NR, MPX FILTER, MONITOR and TAPE SIZE
 are protected by 24-hour memory back-up,
 Are 24 hours, DOLBY NR and MPX FILTER are set to "OFF",
 MONITOR is reset to "TAPE" TAPE SIZE is reset to "C-90". 3) Display Back-up (1) The function

TAPE COUNTER AND MEMORY STOP



ABBO Power supply outlet

Cassette deck

- 1) Operation of the Tape Countre
 (1) Fress the RESET button to reset the " 00 dd".
 (2) By using the PLAY, FF, or REW function, the reading of the counter
 (3) By using the PLAY, FF, or REW function, the reading of the counter
 (4) During recording and playback coperations, the counter is useful for noting the cleanion of existing programs or positions where recording is to be standed to existing programs or positions where recording is to be standed to the counter does not correspond with that of any.
 - other deck. The linear counter of this machine is designed to be suitable for the
- cassatte tape with a small hub.
 Therefore if a cassette tape with a large hub is used is this machine, some error will occur in the display on the counter.

<u>რ</u>

MONITOR BUTTON

This States cassate dect uses a Interhead system which permits simultaneous "off-thr-tape monitoring" during recording, incidentality, as this Stereo Cassate and an aromenitor system, <u>CTAR</u> of <u>ESQUEC</u>, sen automatically be activated according to the operation conditions. These modes can also be activated manually.

| | Monitor button 4 1281 | The signal recorded on the tape is monitored simultaneously "off-the-tape". This monitoring mode enables you easy check for optimum recording levels, in the TARE mode, the FL PEAK METER indicates the signal levels played back off-the-tape. |
|----------|-------------------------|---|
| | Monitor button & SOURCE | The SQUEC position enables you to monitor the input source signal before it is recorded on the tape. Using the FL PEAK METER, this mode is convenient for setting recording levels or input level monitoring during recording. |
| Playback | Monitor button of ARE | During playback, the MONTOR button must be placed in the TATE position. If it is set in the SOURCE position, the signal from the tape won't be heard. |

DOLBY B AND C NOISE REDUCTION SYSTEM.

- The Dolby noise reduction system substantially reduces the tape background noise (hars) inherent in the exsister medium, Dolby B MS is most violed in use. However, Dolby C MS is a much more resent development and represents a significantly improvements over Dolby
 - by the bedgetound notice consists primarily of high frequency informa-tion, which is particularly amonying during soft passages. The Dobby MR system increase the test of itow-volume and and high frequency signal amount during recording and reduces the veet of three signals by an identical amount during payback. As a result, the physics inputs is denical to by the tape is greatly reduced.
- The operating principle of Dolby C NR is similar to that of Dolby B NR except for the encoding/decoding response curver. The noise reduction of the charged visib Dolby C NR is up to 20 dB, compared to 10 dB with Dolby B NR. In a addition, Dolby C NR uses an anti-saturation network and spectral skewing circuitry, for a significant improvement in the oyamic range of the mile. To high-insequencies.

DOLBY HX-PRO HEADROOM EXTENSION SYSTEM

This deet is equipped with the DOLBY HX-PRO headdoom extension system. Since the system functions automaterally during recording, no switching operation or adjustment is required. The system is effective with may type of Double Addoom, refusion system functions during recording in the Dobby HX-PRO headdoom, retension system functions during recording to in the up the servation here in the trade components distorted or lost during recording on convention tested decis are more faithfully recorded on the new DRM-340 casserte decis.

Features of the DOLEY HX-PRO headroom extension system
(1) Performance of hormal and C/O, tapes can be upgraded closer to that
of Metal tapes.
(2) The dynamic ratios is the trebe is improved agoinfearth.
(2) The dynamic ratios is the trebe is improved agoinfearth, in
3) Since no decoding in playbet is necessary, the improvement can be
composerut and can experient any experient including portable
composerut and can systems.

IMPORTANT INFORMATION

Water droplets may form on the such important parts of the deck as the totating parts or head when the deck is used in humid places or exposed to audden temperature changes, such as if it is moved suddenly from a cold place to a warm place.

The lape can be damaged or the deck may not operate if it is used under these conditions. If condensation forms, let the deck sit at room temperature for about one hour before using it.

 A head dening easents is needed to clean the recording/playback head on his deck.
 The quality of the playback or recording sound will be poor if the head is dirty. Always teep the head clean.
 Clean the head periodically, about early? In bours of use, in order to take full advantage of the deck's performance and enjoy quality sound. Cleaning the Head

Demograting the Head

The head becomes magnetized after it are used for a long period of time or if it a exposed to magnetic forces. This results in noise and reduced traffic.

If the head is magnetized, use a cassette-type head demagnetizer, available in stores, and demagnetize it.

TROUBLESHOOTING

Make sure of the followings before you consider as any malfunctions:

Are the star being accordance with the operating instructions?
 Is the set being operater covered in accordance with the operating instructions?
 Are the speakers and amplifiers tunctioning correctly?
 Are the speakers and amplifiers tunctioning correctly, check it again, using the check list below. If the spention does not correspond to the check list, please contact

| Cause |
|--|
| Power cord is off. Tape is completely wound up. Tape is loose Cassette is not loaded properly Defective cassette. |
| No cassette is loaded. Erase prevention tab is broken off |
| Heads, capsian or pinchroller are contaminated. |
| Tape is wound too tight. Recording input level is too high. Tape is worn but and has "dron-outs". |
| Tape is worn. Heads, capsian or pinchroller are contamin. |
| aren. Heads are magnetized. Recording input level is too low. |
| Dolby NR button is set improperly. |
| Heads are contaminated. Tape is worn. |
| The cassette housing is of an older design without tape type detection holes. |
| If the power switch is turned off either the recording or playback mode, and the unit is stopped, there may, be case when the cassette cannot be removed, even if the ELECT button is pressed. |

SPECIFICATIONS

| Type | Vertical tape loading 4-track 2-channel | Inputs | |
|--------------------|---|-------------------|--|
| | stereo cassette deck | LINE | 80 mV (-20 dBm) input level at maximum |
| Heads | Recording & Playback (combination head) × 1 | | Input impedance: 50 kohm unbalanced |
| | Erase (Double gap ferrite head) × 1 | Output | |
| Motors | Capstan (DC servo motor) × 1 | LINE | 620 mV (0 dB) output level at maximum |
| | Reel (DC motor) × 1 | | (with 47 kohm load, recorded level of |
| | Actuator (DC motor.) × 1 | | 200 pwb/mm] |
| Tape Speed | 4.8 cm/sec. | HEADHONE | 1.2 mW output level at maximum |
| Fast Forward, | | | foptimum load impedance 8 ohm |
| Rewind Time | Approx. 100 sec. with a C-60 cassette | | ~ 1.2 kohm) |
| Recording Blas | Approx. 105 kHz | Accessories | Parallel pin cord × 2 |
| Overall S/N Retio | | | Mini-Plug Cable |
| (st 3% THD level) | Dolby C NR on: more than 75 dB | Power Supply | Voltage is shown on rating label |
| | (CCIR/ARM) | Power Consumption | 16 W |
| Overall Frequency | | Dimensions | 434 (W) > 124 (H) × 275 (D) mm |
| Response | 20 ~ 20,000 Hz ± 3 dB | Weight | 4.2 kg |
| | (at -20 dB, METAL tape) | | • |
| Channel Separation | more than 40 dB (at 1 kHz) | | |
| Crosetalk | more than 65 dB (at 1 kHz) | | |
| Wow & Flutter | 0.038% Wrms (JIS method), ±0.1% | | |
| | w. peak | | |

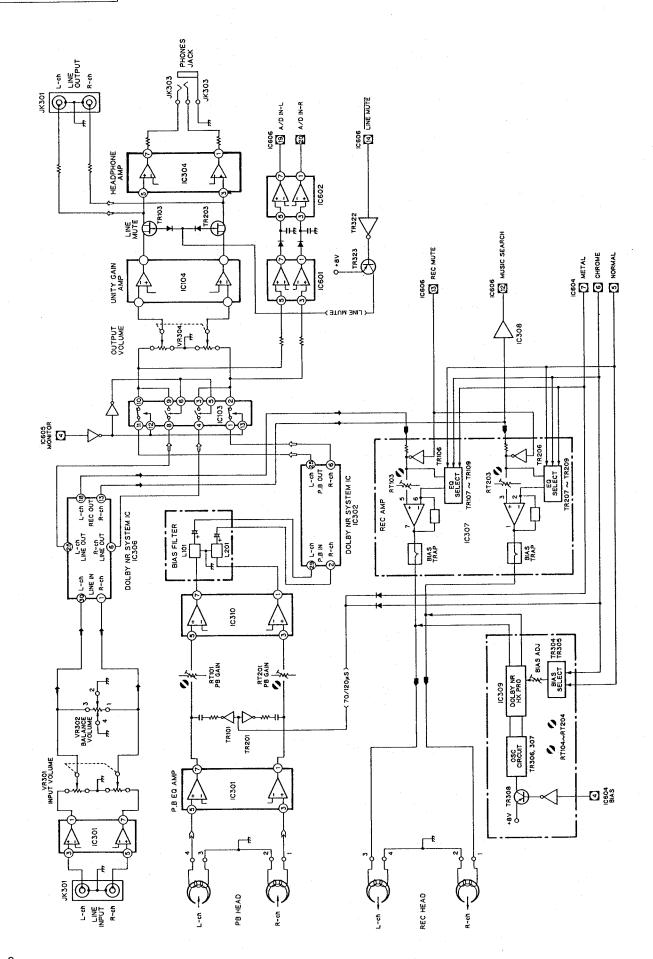
* Above specifications and design are subject to change without prior notice.

Best results will be obtained with use of DENON DX and HD Series cassette tapes.

Dolby, noise reduction and HX Pro headroom extension manufactured under license from Dulby Laboratories Licensing Corporation, HX Pro originated by & Olutsen.

DOLBY", the double-D symbol 🔟 and "HX PRO" are trademarks of Dolby Laboratories Licensing Corporation

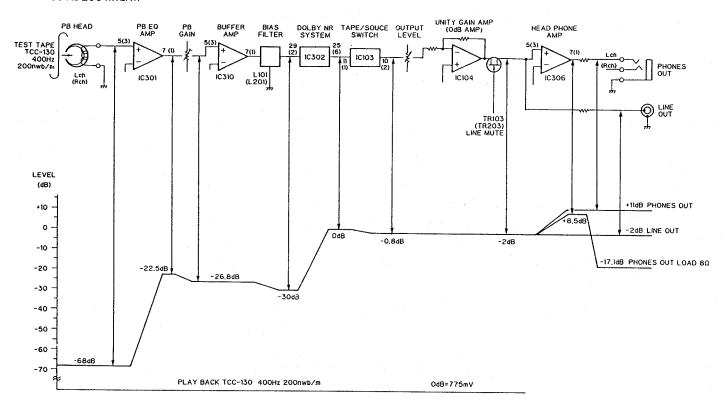
BLOCK DIAGRAM



LEVEL DIAGRAM

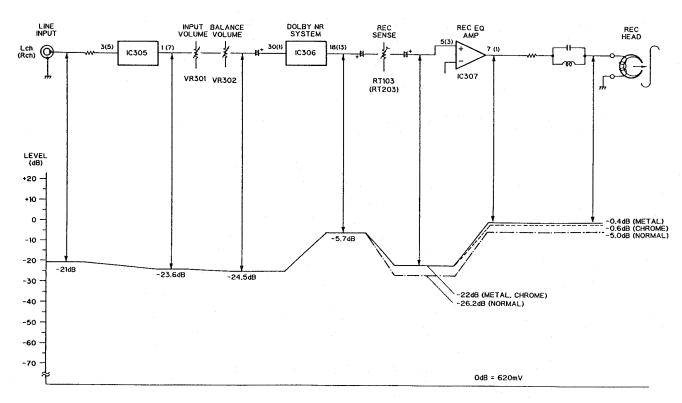
PLAYBACK SYSTEM

TCC-130 DOLBY B-TYPE 400 Hz 200 nwb/m



RECORDING SYSTEM

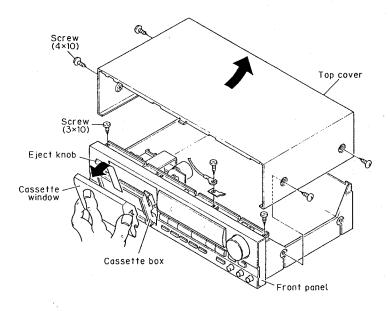
INPUT FREQUENCY 400 Hz

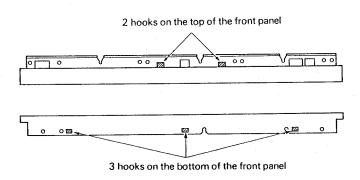


DISASSEMBLY INSTRUCTIONS

1. How to Remove the Front Panel

- (1) Remove the four screws (4 \times 10 CTTS-P) in the side of the top cover. Move the top cover to the rear and rise it to remove it.
- (2) Press the eject knob, open the cassette box and remove the cassette window as shown in the figure.
 - **Note:** Handle the cassette window with care because it can be scratched easily.
- (3) Remove the three screws (3 \times 10 CBTS-P) on top of the front panel, the two hooks on the top, the three hooks on the bottom and pull the unit forward to detach it.



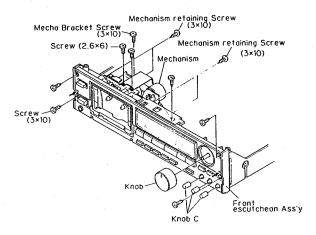


2. How to Remove the Front Escutcheon Ass'y

- (1) Remove the top cover and front panel. (Refer to Step 1.)
- (2) Remove the three retaining screws 3 \times 10 CBTS-(P)-B holding the Front Escutcheon at the front.

(3) Disconnect all lead connectors.

- (4) Remove Volume Knob and Volume Knob (C).
- (5) Remove the four retaining screws (2.6 \times 6 CBTS(S)-Z) (3 \times 10 CBTS(P)-B) holding the Mecha Bracket.
- (6) Remove the Hooks at the left and right of the front face of the Front Esc. Ass'y, and the two hooks on the bottom, Front Ass'y can be removed towards the front.



Hooks at left and right of Front Esc. Ass'y

3. How to Remove the Mechanisms

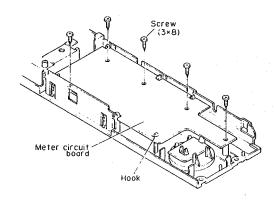
Remove the four Mechanism retaining screws 3×10 CBTS(P)-B and take out C Mechanism.

4. How to Remove the Meter Circuit Board

- (1) Remove the top cover and the front panel. (Refer to section 1.)
- (2) Remove the front esc. ass'y. (Refer to section 2.)
- (3) If you remove the five binding screws (3 × 8 CBTS · P tight) of the meter circuit board, and loosening the five hooks, the meter circuit board can be taken off.

Note: When replacing the tact switch, check to make sure that it is not floating above the circuit board. If it is floating, the switch will be in the on condition when the set is assembled.

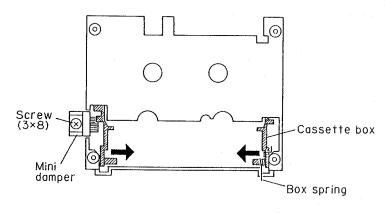




Meter Circuit Board

5. How to Remove the Cassette Door

- (1) Remove the MINI DAMPER retaining screw 3 \times 8 CBTS(P)-B and take out the MINI DAMPER.
- (2) Hold the legs of the CASSETTE BOX folded inwards and pull up to remove the CASSETTE BOX and BOX SPRING.



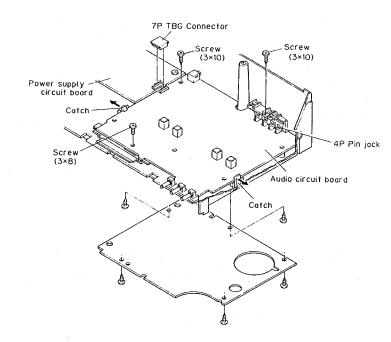
Front surface of Front Ass'y

6. How to Remove the Audio Circuit Board

- Remove the top cover and the front panel. (Refer to section
 1.)
- (2) Remove the front esc. ass'y. (Refer to section 2.)
- (3) Remove the connectors from the audio circuit board and power supply circuit board.

Side of the Power supply $CN901 \rightarrow (7P) \rightarrow CN901$ audio circuit circuit board TBG board CONNECTOR

(4) Remove the screw (3 × 10 CBTS ·P tight) (3 × 8 CBTS ·S tight) that is holding down the 4P pin jack and circuit board. By removing the two catches (left and right) of the chassis holding down the circuit board in the directions of the arrows shown below, the audio circuit board can be pulled forward.



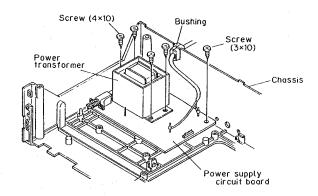
Note: • Almost all of the service repairs to the audio circuit board can be performed by removing the bottom cover on the rear side of the chassis.

Only when it is unavoidable should you refer to the removal method mentioned above.

 When reassembling, follow the procedures in the reverse order. However, if each of the various parts are not assembled properly in their respective position, the set cannot be assembled in some cases. Therefore, check the work of each step carefully when assembling.

7. How to Remove the Power Supply Circuit Board

- (1) Remove the top cover and the front panel. (Refer to section 1.)
- (2) Remove the bushing that is fixing the power supply cord from the chassis.
- (3) When the five screws (4 × 10 CBTS · P tight) (3 × 10 CBTS · P tight) that are holding the power transformer and chicuit board are removed, the power supply circuit board can be removed by raising it.



ADJUSTING AND CHECKING THE MECHANISM SECTION

1. Exchanging pinch roller

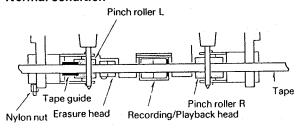
Before exchanging the pinch roller, clean the tape contact surfaces of the pinch roller and of the capstan shaft.

Defects on tape playing are primarily caused by a dirty pinch roller or capstan shaft.

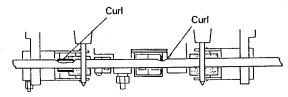
The right pinch roller arm 4 can be detached by removing the washer 28. The left pinch roller arm 20 can be taken out by removing The spring 26 and the nylon nut 37.

After exchanging the pinch roller, run a tape without a C-90 butt and verify that no tape curling occurs at the tape guide and the tape guide part on the record/playback head.

Normal condition

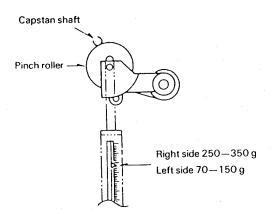


Defective running condition



2. Verifying pinch roller crimping

In the playback condition, hook a stick type spring balance to the bracket on the central axis of the pinch roller. After pulling the pinch roller away from the capstan shaft, let the pinch roller contact the capstan shaft as it is and verify that the readings on the stick type spring balance are 250 to 350 g on the right side and 70 to 150 g on the left when the pinch roller starts turning. If the readings exceed the standard values, replace spring 26 or

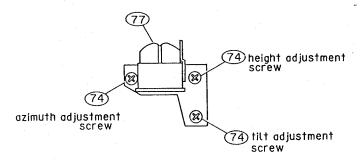


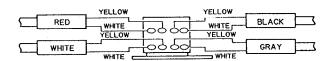
3. Exchanging recording/playback head 77

Detach the front panel first.

- 3-1 Dismounting recording/playback head
- (1) Detach the recording/playback head locking screw (74).
- (2) Remove soldering on the head wire and separate the mechanical unit to dismount the recording/playback head.
- 3-2 Recording/playback head installation

Assembly is the reverse of the installation procedure described in section 3-1. The soldering for the head wire is performed as shown in Figure 3-1.





4. Recording/playback head Adjustment

- 4-1 Height adjustment (adjust with head adjustment jig THG-801)
- (1) Set THG-801 (jig board) on the mechanical unit and perform the adjustment by turning the special height adjustment screw (74) so the 3.8 mm part on THG-801 (jig shaft) can move without touching the tape guide on the recording/playback head (77).
- (2) Turn the azimuth adjusting screw (74) so that the recording/playback head does not tilt while adjusting the height, and make a rough visual adjustment.

ADJUSTING THE ELECTRICAL SECTIONS

ELECTRICAL SYSTEM ADJUSTMENT

Gauges necessary for adjustment

(1) Low frequency oscillator (2) Variable resistance attenuator (4) Oscilloscope (5) Frequency (3) Electronic voltmeter (7) Trap coil adjustment (6) Adjustment driver counter square regulation shaft

(8) Test tape (SONY TY224) (A-BEX TCC-153, TCC-130, TCC-262B/162B) (DENON GR-2/60)

Adjustment Notes

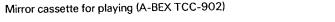
- (1) Clean the head surface, capstan axis, pinch roller, etc. with gauze or cotton swabs soaked with alcohol before adjusting.
- (2) Demagnetize the recording head and erasure head with the head eraser.
- Completely demagnetize the adjusting driver.
- (4) Set function switches as follows unless specifically indicat-
- O MONITOR switch: TAPE
- O INPUT volume: Maximum (right side)
- O DOLBY NR switch: OFF
- O BIAS volume: Center (clicking detent in center)
- O OUT PUT volume: Maximum (right side)
- O BALANCE volume: Center (clicking detent in center)

1. Tape playing check

Load a mirror cassette for playing and examine the area around the fixed guide of the recording/playback head at playing condition with lighting and verify that the tape edge is not contacting the tape guide part. The tape playing is the most important element that determines the capacity of the entire cassette deck. Make every effort to avoid moving the adjusting part. Also, refer to "Adjustment and verification of mechanical system" for exchanging and adjusting the recording/playback head.

2. Azimuth adjustment

- 2-1 After verifying the tape playback, load the test tape (A-BEX TCC-153).
- 2-2 Playback the test tape and make any necessary adjustment by turning the azimuth adjustment nut so that A and B in the Lissajous wave figure are at the maximum and minimum levels respectively.



F Counter PB Amp 3000 LINE OUT 3000 Hz <u>†</u> 6 Hz SONY TY-224

3. Tape Speed Verification and Adjustment

and load a test tape (SONY TY-224)

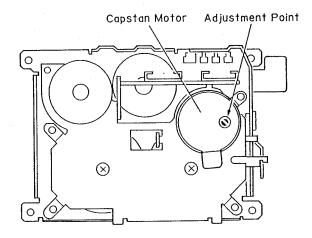
3-1 Connect the frequency counter to the LINE OUT terminal

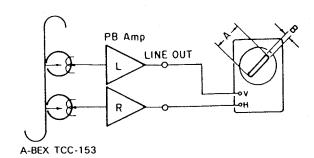
3-2 Playback the test tape. When the test tape playback stabi-

lizes at the center part of the tape, adjust the regulator on

the back side of the capstan motor so that the frequency

counter reading is set within the range of 3000 Hz ± 6 Hz.

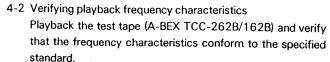




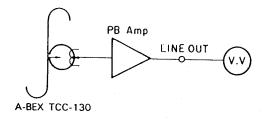
4. Playback System Adjustment

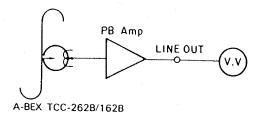
4-1 Playback level

Playback a test tape for Dolby standard level (A-BEX TCC-130). Adjust RT101 (Lch) and RT201 (Rch) so that the LINE OUT terminal level is at -2 dB (0.620 V).

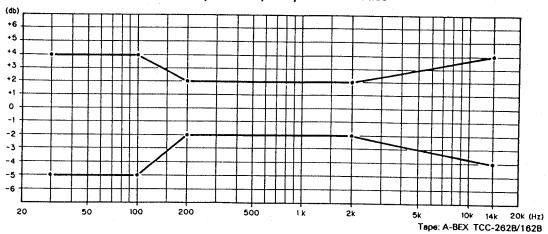


Note: Before checking the playback frequency response, first adjust the azimuth using the 8 kHz signal at the beginning of the test tape (A-BEX TCC-262B). Also, after checking the playback frequency, make sure to readjust the azimuth with the test tape (A-BEX TCC-153) and then lock the adjustment screw.





Playback frequency characteristics

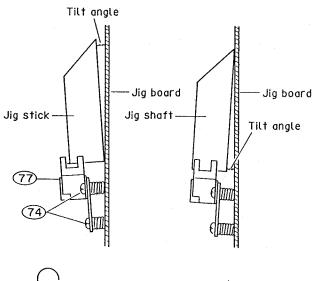


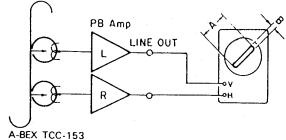
4-2 Adjustment of tilt angle

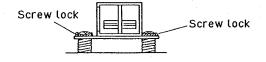
- (1) Set THG-801 (jig board) in the mechanical unit and place THG-801 (jig shaft) on the recording head to inspect the gap between the jig board. If the jig shaft is tilted forward, the tilt screw 74 is too tight. Loosen it slightly and adjust the tilt screw 74 until the jig stick is parallel to the jig board and the gap is completely eliminated.
- (2) Readjusting the tilt may cause the height adjustment to slip. After adjusting the tilt, be sure to verify the height. If the height is misaligned, turn the special height adjustment screw 14 and the tilt screw 14 to the same angle to shift the recording/playback head so it is parallel to the jig board for height readjustment. After the adjustment is completed, tighten the lock nuts.

4-3 Azimuth Adjustment

Playback test tape A-BEX TCC-153 and perform the adjustment by turning the azimuth adjustment screw 14 until A and B in the Lissajous wave figure are at the maximum and the minimum positions respectively. After azimuth adjustment is completed, check again to make sure there is no dislocation on the head height with the readjusting jig THG-801. After the adjustment is completed, secure the lock nuts on the adjusted parts.







5. Erasure Head (78) Exchange

- 5-1 Remove the locking screw (74) for the erasure head.
- 5-2 Remove the solder on the head wire, and separate the mechanical unit to dismount the erasure head.

6. Tape guide height verification

Set the jig board THG-801 on the mechanical unit. Adjust it by turning the height adjustment screw 74 so that the 3.8 mm part on the jig stick THG-801 jig shaft move without contacting the tape guide part of the tape guide.

7. Verifying fast-forwarding torque

Load a cassette-type torque meter and verify that the reading on the torque meter at the median value is 30-70 g-cm during playback.

If the reading is outside the standard, verify the voltage of the reel motor (4.1 V \pm 0.3 V). If the voltage is low the torque is weak and when the voltage is high the torque is strong. Also verify the reel thrusting gutter in Item 8.

8. Verification Reel Driver Thrust Movement

Verify that the thrust movement is 3.0 to 4.0 mm.

9. FF and REW Torque Verification

- When using cassette-type torque meter:
 Verify that the readings at the end of the fast-forward and rewind is 90—180 g-cm.
- O Load the cassette half-modified jig and hook the tip of a dial tension meter (full scale 100—300 g) on the triangle part. Switch to the FF (REW) position and feed a tape at a somewhat slower pace than the speed of the tape that is rolled in. Verify that the value on the dial tension meter at that time is more than 90 g-cm.

10. Back tension torque verification for recording/playback

Load a cassette-type torque meter to verify that the reading on the torque meter for recording/playback is 6 to 12 g-cm and there is no unevenness.

If the reading is outside the standard values, verify the reel thrust gutter or replace the REEL BASE BLK (82).

11. FF and REW Time Verification

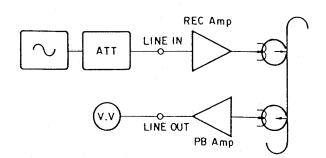
Load a DENON HD-7E/60 cassette tape and verify that the FF and REW time is 80 to 110 seconds. If the reading is outside the standard values, verify Items 8 and 10.

12. Accidental erasure prevention, metal and chrome switch function verification

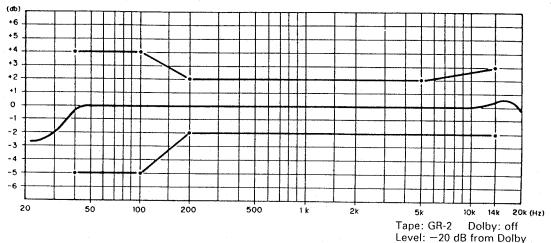
Verify that switch 9 is functioning normally depending on whether the hole is present or not.

5. Recording System Adjustment

- 5-1 Adjusting recording/playback comprehensive frequency characteristics
- Load a test tape DENON GR-2/60. Record with a -38 dB 1 kHz input level signal into the LINE IN terminal and playback.
- (2) Make a sample recording using a 10-kHz input signal and playback this recording. Adjust RT103 (left channel) and RT203 (right channel) so that they conform to the following specified characteristics.



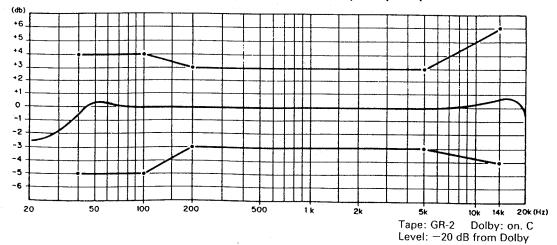
Record/Playback Overall Frequency Response



5-2 Recording/Playback Level Adjustment

- (1) Load the test tape DENON GR-2/60. Make a sample recording with the 1 kHz (-38 dB) signal and play this section back.
- (2) Adjust RT-102 (Lch) and RT-202 (Rch) so that the output from LINE OUT terminal is the same as the output at recording monitoring time.
- 5-3 Dolby C recording and playback comprehensive frequency characteristics verification
- (1) Set the Dolby NR switch at "C" position.
- (2) Use a test tape DENON GR-2/60 and record and playback as in Item 5-1 to verify that they satisfy the characteristics standards.

Dolby C Record/Playback Overall Frequency Response



PARTS LIST OF KU-9292 AUDIO/METER UNIT

| Ref. No. | Part No. | Part Name | Remarks |
|----------|---------------|-----------------------------------|--------------------|
| | L | <u> </u> | Tierraiks |
| SEMICON | DUCTORS GRO | OUP . | |
| IC103 | 262 0276 005 | IC HD14066BP | |
| IC104 | 263 0424 902 | IC M5218FP (TAPE) | ! |
| IC301 | 262 0864 006 | IC UPC4570C | |
| IC302 | 263 0715 006 | IC CXA1330S | |
| IC304 | 263 0711 000 | IC M5218AP | |
| 1C305 | 263 0565 007 | IC BA15218 | |
| IC306 | 263 0715 006 | IC CXA1330S | |
| IC307, | 263 0565 007 | IC BA15218 | |
| 308 | | : | |
| IC309 | | IC UPC1297CA | |
| IC310 | 263 0565 007 | • | |
| IC601 | 263 0565 007 | | |
| IC602, | 263 0620 007 | IC BA10393 | |
| 603 | | | |
| IC604, | 262 1295 001 | IC UPD4094BC | |
| 605 | 000 4005 000 | | |
| IC606 | 262 1995 000 | μComputer | |
| 10000 | 400 0150 000 | UPD75212ACW-A89 | |
| IC609, | 499 0150 008 | Remote Sensor | |
| IC901 | 263 0810 008 | SBX1610-52 IC NJM7808A (S) | |
| IC901 | | • . | |
| IC902 | | IC NJM7908A IC JM7806A (S) | |
| IC904, | 262 0447 009 | | |
| 905 | 202 0447 003 | TIC BACTUSOT | |
| TR101, | 273 0245 900 | Transistor 2SC2603E/F T | |
| 102 | 270 02 10 000 | 11411013(0) 2002000277 7 | |
| TR103 | 275 0048 912 | Transistor | |
| | | 2SK381 (B)/(C)-T | |
| TR105 | 269 0015 908 | Transistor | Built in Resistor |
| | | DTC124XS (22K-47K)T | |
| TR106 | 273 0245 900 | Transistor 2SC2603E/F T | |
| TR108 | 269 0015 908 | Transistor | Built in Resistor |
| ~110 | | DTC124XS (22K-47K)T | |
| TR111 | 273 0245 900 | | |
| TR201, | 273 0245 900 | Transistor 2SC2603E/F T | |
| 202 | .== | | |
| TR203 | 275 0048 912 | | |
| TRACE | 200 0015 000 | 2SK381 (B)/(C)-T | Duille in Donings |
| TR205 | 269 0015 908 | DTC124XS (22K-47K)T | Built in Resistor |
| TR206 | 273 0245 900 | Transistor 2SC2603E/F T | |
| TR208 | 269 0015 908 | Transistor | Built in Resistor |
| ~210 | 209 0015 908 | DTC124XS (22K-47K)T | built ill nesistor |
| TR211 | 273 0245 900 | Transistor 2SC2603E/F T | |
| TR301 | 269 0019 904 | Transistor | Built in Resistor |
| | | DTA143XS (4.7K-10K)T | |
| TR302 | 269 0062 906 | Transistor | Built in Resistor |
| | | DTC124ES (22K-22K)T | |
| TR304, | 269 0015 908 | Transistor | Built in Resistor |
| 305 | | DTC124XS (22K-47K)T | |
| TR306, | 273 0245 900 | Transistor 2SC2603E/F T | , |
| 307 | | | |
| TR308 | 272 0025 907 | Transistor 2SB562 (C)TF | |
| TR311 | 269 0040 902 | Transistor | Built in Resistor |
| TDOSC | 260 0015 000 | DTC144ES (47K-47K) | Duilt in Desire |
| TR316 | 269 0015 908 | Transistor | Built in Resistor |
| TR317 | 269 0040 902 | DTC124XS (22K-47K)T Transistor | Built in Resistor |
| 111317 | 203 0040 302 | DTC144ES (47K-47K) | ount in nesistor |
| TR321, | 269 0018 905 | Transistor | Built in Resistor |
| 322 | 200 0010 000 | DTC143ES (4.7K-4.7K)T | Dant in Hesistol |
| TR323 | 269 0022 904 | Transistor | Built in Resistor |
| | | DTA143ES (4.7K-4.7K)T | |
| TR601 | 269 0112 908 | Transistor | Built in Resistor |
| | | DTC144WS (47K-22K)T | |
| L | L | 1 | l |

| ſ | | · · | 7 | |
|---|------------------|------------------------------|---|----------------------------|
| | Ref. No. | Part No. | Part Name | Remarks |
| | TR604, 605 | 269 0082 902 | Transistor DTC144EKT96 | Built in Resistor |
| - | TR850 | 269 0015 908 | Transistor | Built in Resistor |
| ł | | | DTC124XS (22K-47K)T | |
| 1 | TR904 | 272 0025 907 | | |
| | TR908 | 269 0015 908 | Transistor | Built in Resistor |
| | TR909 | 272 0025 907 | DTC124XS (22K-47K)T | |
| | TR910 | 269 0090 907 | Transistor 2SB562 (C)TF Transistor DTC143XS-T | Built in Resistor |
| İ | D101. | 1 | Diode (Chip) | ballt in nesistor |
| | 201 | | 1SS354TE-17 | |
| | D301, | 276 0432 903 | Diode 1SS270A | |
| | 302 | | | |
| | D304, 305 | 276 0468 906 | Zener Diode HZS9B-1TD | |
| ļ | D306 | 276 0432 903 | Diode 1SS270A | |
| 1 | ~308 | 2.00.00 | 5.000 1002707 | |
| | D310 | 276 0432 903 | Diode 1SS270A | |
| | D311 | 276 0468 906 | Zener Diode HZS9B-1TD | |
| | D312 | | Diode 1SS270A | |
| | D314, | | Zener Diode HZS9B-1TD | |
| | D601 D605 | 276 0432 903 276 0432 903 | Diode 1SS270A Diode 1SS270A | i i |
| 1 | D610 | 276 0432 903 | Diode 1SS270A | |
| | ~613 | | | |
| ļ | D651 | 276 0432 903 | Diode 1SS270A | |
| | ~654 | | | |
| | D656 ~659 | 276 0432 903 | Diode 1SS270A | |
| | ~659 D661 | 276 0432 903 | Diode 1SS270A | 5 |
| | ~666 | 2.0 0402 505 | Blode 100270A | |
| ĺ | D669 | 276 0432 903 | Diode 1SS270A | |
| 1 | D701 | 276 0432 903 | Diode 1SS270A | ļ |
| - | D702 | 276 0432 903 | Diode 1SS270A | |
| - | D707 D777 | 276 0432 903 276 0432 903 | Diode 1SS270A Diode 1SS270A | |
| | D901 | 276 0553 905 | Diode 133270A Diode | ! |
| | ~906 | | 1SR35-200A (T93X) | |
| 1 | D909, | 276 0432 903 | Diode ISS270A | |
| Ì | 910 | | | |
| | D911, | 276 0553 905 | : | |
| | 912 D914 | 276 0483 907 | 1SR35-200A (T93X) Zener Diode HZS30-1TD | |
| | D915 | 276 0468 906 | Zener Diode HZS9B-1TD | = |
| | D917 | 276 0460 904 | Zener Diode HZS5C-1TD | |
| | D918 | 276 0461 903 | Zener Diode HZS6A-1TD | |
| | D919 | 276 0466 908 | Zener Diode HZS7C-1TD | |
| | D920 | 276 0471 906 | Zener Diode HZS11B-1TD | |
| | D921 | 276 0553 905 | Diode | |
| | ~923 | | 1SR35-200A (T93X) | |
| 1 | RESISTOR | S GROUP | · | |
| | | | ±5% 1/4W type) | |
| r | VR301 | 211 0734 002 | Valiable 5K ohm | V1420HFA502R |
| | | | (INPUT) | |
| | VR302 | 211 0735 001 | Valiable 10K ohm | V09V25FW103- |
| | Mossa | 944 6700 004 | (BALANCE) | V00V0EED4 0017 |
| | VR303 VR304 | 211 0706 001 211 0736 000 | Valiable 1K ohm (BIAS) Valiable 10K ohm | V09V25FB102K V09V25FA03 |
| | *11504 | 211 0/30 000 | (CD CYNCRO) | +004501 M03 |
| 1 | RT101 | 211 6093 954 | Adjust 22K ohm | V06PB223 T |
| | RT103 | 211 6093 967 | Adjust 47K ohm | V06PB473 T |
| | RT104 | 211 6093 954 | Adjust 22K ohm | V06PB223 T |
| | RT201 | 211 6093 954 | Adjust 22K ohm | V06PB223 T |
| | RT203 RT204 | 211 6093 967 211 6093 954 | Adjust 47K ohm Adjust 22K ohm | V06PB473 T V06PB223 T |
| L | 111204 | £11 0033 304 | rajust ZZR UIIII | . 301 0223 (|

| 004 R009 | P. 247 | art No | 0. | Part Name | Remarks |
|--|--|--|----------------|------------------------------|--------------------------|
| 004 R009 | 247 | | | | |
| 004 R009 | 247 | | 904 | Chip 0 ohm | RM73B20R0KT |
| R009 | | 1016 | 304 | Criip o Oriin | THAT OBEOTION: |
| - 1 | 247 | 1018 | 904 | Chip 0 ohm | RM73B20R0KT |
| R010, | | 1018 | ľ | Chip 0 ohm | RM73B20R0KT |
| 011 | | | | · . | |
| R012, | 247 | 0018 | 905 | Chip 0 ohm | RM73B0R0KT |
| 013 | | | j | | |
| R014 | 247 | 1018 | 904 | Chip 0 ohm | RM73B20R0KT |
| R016 | 247 | 1018 | 904 | Chip 0 ohm | RM73B20R0KT |
| R018 | 247 | 0018 | 905 | Chip 0 ohm | RM73B0R0KT |
| ~020 | | | | | |
| R022 | | | | | RM73B20R0KT |
| - 1 | | | - 1 | · · | RM73B20R0KT |
| , | | | | | RM73B0R0KT |
| | 247 | 1018 | 904 | Chip U onm | RM73B20R0KT |
| | 047 | 0011 | 044 | Chi- 471/ ahm | RM73B473JT |
| li li | | | | • | RM73B331JT |
| . 1 | | | | | RM73B243JT |
| | | | | | RM73B474JT |
| | | | | • | RM73B201JT |
| | | | | • | RM73B225JT |
| 1 | | | | ' | RM73B473JT |
| 1 | | | | Chip 100K ohm | RM73B104JT |
| R127 | | | | Chip 10K ohm | RM73B103JT |
| | | | | · • | RM73B101JT |
| R131 | | | | Chip 27K ohm | RM73B273JT |
| R132 | 247 | 0011 | 944 | Chip 47K ohm | RM73B473JT |
| R134 | 247 | 2315 | 912 | Carbon (Fusible) 10 ohm | RD14B2E100GFRST |
| R137 | 247 | 0009 | 943 | Chip 6.8K ohm | RM73B682JT |
| R153 | 247 | 0012 | 969 | Chip 150K ohm | RM73B154JT |
| R160 | 247 | 0009 | 927 | Chip 5.6K ohm | RM73B562JT |
| R161, | 247 | 0010 | 929 | Chip 15K ohm | RM73B153JT |
| 162 | | | | | |
| R164 | 1 | | | Chip 330 ohm | RM73B331JT |
| R165 | | | | · ' | RM73B333JT |
| | 1 | | | 1 . | RM73B473JT |
| | Į. | | | · ' | RM73B331JT |
| | 4 | | | 1 . | RM73B243JT |
| | 1 | | | , | RM73B474JT |
| | | | | i ' | RM73B201JT RM73B225JT |
| | 1 | | | l' | RM73B473JT |
| | | | | 1 ' | RM73B104JT |
| | 1 | | | 1 ' ' | RM73B103JT |
| | | | | 1 | RM73B103JT |
| | I | | | 1 | RM73B273JT |
| | 1 | | | 1 ' | RM73B473JT |
| CONTRACTOR OF CONTRACTOR OF CONTRACTOR | 1 | | | | |
| 100 | 100 | 52.00.002.008 | | | RM73B682JT |
| R253 | | | | Chip 150K ohm | RM73B154JT |
| | | | | Chip 5.6K ohm | RM73B562JT |
| | 1 | | | Chip 15K ohm | RM73B153JT |
| 262 | | | | | |
| R264 | 24 | 7 000 | 6 920 | Chip 330 ohm | RM73B331JT |
| R265 | 24 | 7 001 | 1 902 | Chip 33K ohm | RM73B333JT |
| R308 | 24 | 7 001 | 1 944 | Chip 47K ohm | RM73B473JT |
| R314 | 24 | 7 000 | 8 915 | Chip 2K ohm | RM73B202JT |
| R320 | 24 | 7 001 | 2 927 | Chip 100K ohm | RM73B104JT |
| | 24 | 7 000 | 6 962 | Chip 470 ohm | RM73B471JT |
| R321 | 1 - 4 | 7 001 | 2 927 | Chip 100K ohm | RM73B104JT |
| R321 R322 | 24 | , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | Chin 47 above | |
| | 1 | | 4 922 | Chip 47 ohm | RM73B470JT |
| R322 | 24 | 7 000 | 4 922 1 960 | Chip 56K ohm | RM73B563JT |
| R322 R323 | 24 24 24 | 7 000 7 001 7 001 | 1 960 2 901 | Chip 56K ohm Chip 82K ohm | RM73B563JT RM73B823JT |
| R322 R323 R324 | 24 24 24 24 | 7 000 7 001 7 001 7 001 | 1 960 | Chip 56K ohm | RM73B563JT |
| | 013 R014 R016 R018 -020 R022 R024 R025 R026, 028 R101 R103 R104 R105 R112 R117 R120 R121 R127 R128 R131 R132 R134 R137 R153 R160 R161, 162 R164 R165 R201 R203 R204 R205 R211 R227 R228 R231 R232 R234 R237 R253 R260 R261, 262 R264 R265 R308 | 013 R014 R014 R016 R018 R018 R018 R020 R022 R024 R025 R026 R028 R101 R103 R104 R105 R104 R105 R112 R117 R120 R112 R117 R120 R112 R131 R132 R131 R132 R134 R137 R153 R160 R161 R161 R162 R164 R201 R201 R201 R201 R201 R201 R201 R201 | 013 R014 | 013 R014 | O13 |

| Ref. No. | Part No. | Part Name | Remarks |
|-----------------------|--------------|---|-----------------|
| R328, | 247 0009 985 | Chip 10K ohm | RM73B103JT |
| 329 R331, | 247 0012 943 | Chip 120K ohm | RM73B124JT |
| 332 ⚠ R333, | 241 2315 925 | Carbon (Fusible) 22 ohm | RD14B2E220GFRST |
| 334 | | | D1470D 400 47 |
| R338 | 247 0009 985 | Chip 10K ohm | RM73B103JT |
| R339 | 247 0014 967 | Chip 1M ohm | RM73B105JT |
| R341 | 247 0008 928 | Chip 2.2K ohm | RM73B222JT |
| R347 | 247 1009 984 | Chip 10K ohm | RM73B2B103JT |
| R348 | 247 0094 985 | Chip 10K ohm | RM73B103JT |
| R601, | 247 0010 987 | Chip 27K ohm | RM73B273JT |
| 602 | | | |
| R603 | 247 0011 986 | Chip 68K ohm | RM73B683JT |
| R604 | 247 0005 905 | Chip 100 ohm | RM73B101JT |
| R605 | 247 0014 967 | Chip 1M ohm | RM73B105JT |
| R608 ~615 | 247 0012 998 | Chip 200K ohm | RM73B204JT |
| R616 | 247 0011 944 | Chip 47K ohm | RM73B473JT |
| R617 | 247 0012 927 | Chip 100K ohm | RM73B104JT |
| R618 | 247 0012 927 | Chip 100K ohm | RM73B104JT |
| ~623 | | · | |
| R624 | 247 1009 984 | Chip 10K ohm | RM73B2B103JT |
| R625 | 247 0009 985 | Chip 10K ohm | RM73B103JT |
| R626 | 247 0008 928 | Chip 2.2K ohm | RM73B222JT |
| R631 | 247 0009 985 | Chip 10K ohm | RM73B103JT |
| ~635 | | | |
| R636, 637 | 247 0011 902 | Chip 33K ohm | RM73B333JT |
| R638 | 247 0009 985 | Chip 10K ohm | RM73B103JT |
| R640 | 247 1009 984 | Chip 10K ohm | RM73B2B103JT |
| R643, 644 | 247 1009 984 | Chip 10K ohm | RM73B2B103JT |
| R645, 646 | 247 0007 945 | Chip 1K ohm | RM73B102JT |
| R648, 649 | 247 0009 985 | Chip 10K ohm | RM73B103JT |
| R701, 702 | 247 0010 987 | Chip 27K ohm | RM73B273JT |
| R703 | 247 0011 986 | Chip 68K ohm | RM73B683JT |
| R704 | 247 0005 905 | Chip 100 ohm | RM73B101JT |
| R705 | 247 0014 967 | Chip 1M ohm | RM73B105JT |
| R720 | 247 0013 900 | Chip 220K ohm | RM73B224JT |
| R721 | 247 0011 915 | Chip 36K ohm | RM73B363JT |
| R722, | 247 0011 957 | Chip 51K ohm | RM73B513JT |
| 723 | | | |
| R724, 725 | 247 0014 925 | Chip 680K ohm | RM73B684JT |
| R726, | 247 0013 900 | Chip 220K ohm | RM73B224JT |
| 727 R728, | 247 0009 985 | Chip 10K ohm | RM73B103JT |
| 729 R910 | 247 0012 927 | Chip 100K ohm | RM73B104JT |
| 1 | 247 0012 927 | Chip 470 ohm | RM73B471JT |
| R912 ~915 | | , | |
| R916 | 247 0007 987 | Chip 1.5K ohm | RM73B152JT |
| ⚠ R917 | 244 0077 028 | | RS14B3D180JNBF |
| <u></u> 1 R920 | 241 2315 912 | 2W (Non-buring type) Carbon (Fusible) 10 ohn | RD14B2E100GFRST |
| | ORS GROUP | | |
| C101 | 257 0004 987 | Chip (Ceramic) 120pF/50V | CC73SL1H121JT |
| C102 | 255 1209 905 | Film 0.0056µF/50V | CQ93M1H562JT |
| C102 | 254 3056 917 | Electrolytic | CE04D1H010MBPT |
| 1 0103 | 254 5056 817 | 1μF/50V (Bipolar) | SME |
| b | | | |

| Ref. No. | Part No. | Part Name | Remarks |
|------------------|------------------------------|---|---------------------|
| | | | |
| C104 | 255 1217 900 | Film 0.027µF/50V | CQ93M1H273JT |
| C106 C110, | 254 4260 948 255 1204 900 | Electrolytic 1μF/50V Film 0.0022μF/50V | CE04W1H010MT SME |
| 111 | 255 1204 900 | ΓΙΙΤΙ 0.0022με/500 | CQ93W1H222J1 |
| C112 | 254 4278 943 | Electrolytic 0.56μF/50V | CE04W1HR56MT SME |
| C113 | 254 4260 922 | Electrolytic 0.33µF/50V | CE04W1HR33MT SME |
| C114 | 254 4254 909 | Electrolytic 10µF/16V | CE04W1C100MT SME |
| C115 | 254 4260 951 | Electrolytic 2.2µF/50V | CE04W1H2R2MT SME |
| C116 | 254 4260 948 | Electrolytic 1µF/50V | CE04W1H010MT SME |
| C117 | 253 1179 945 | Ceramic 220pF/50V | CK45B1H221KT DD-3 |
| C123 | 254 4261 918 | Electrolytic 47µF/50V | CE04W1H470MT SME |
| C124 | 254 4260 948 | Electrolytic 1µF/50V | CE04W1H010MT SME |
| C125 | 253 9031 962 | Ceramic 0.0027µF/25V | CK45=1E272KT |
| C126, | 255 1204 900 | Film 0.0022µF/50V | CQ93M1H222JT |
| 127 | | | |
| C226, 227 | 255 1204 900 | Film 0.0022μF/50V | CQ93M1H222JT |
| C128 | 254 4278 943 | Electrolytic 0.56µF/50V | CE04W1HR56MT SME |
| C129 | 254 4260 922 | Electrolytic 0.33µF/50V | CE04W1HR33MT SME |
| C130 | 254 4254 909 | Electrolytic 10μF/16V | CE04W1C100MT SME |
| C131 | 254 4254 909 | Electrolytic 10μF/16V | CE04W1C100MT SME |
| C132 | 253 9030 947 | Ceramic 0.0047µF/25V | CK45=1E472KT |
| C133 | 254 4258 905 | Electrolytic 4.7µF/35V | CE04W1V4R7MT SME |
| C134 | 254 4252 901 | Electrolytic 22µF/10V | CE04W1A220MT SME |
| C135 | 256 1034 953 | Merallized 0.068µF/50V | CF93A1H683JT |
| C136 | 253 9030 921 | Ceramic 0.0022µF/25V | CK45=1E222KT |
| C137 | 257 0005 902 | Chip (Ceramic) 150pF/50V | CC73SL1H151JT |
| C138 | 253 9031 991 | Ceramic 0.0082µF/25V | CK45-1E822KT |
| C139 | 253 9030 934 | Ceramic 0.0033µF/25V | CK45=1E332KT |
| C141 | 257 1010 970 | Chip (Ceramic) 0.0056μF/50V | CK73B1H562KT |
| C142 | 257 0004 961 | Chip (Ceramic) 100pF/50V | CC73SL1H101JT |
| ∕∆ C143 ∕ | 253 1131 909 | Ceramic 390pF/500V | CK45B2H391KT |
| C144 | 257 0006 985 | Chip (Ceramic) | CC73SL1H821JT |
| C145 | 257 0010 900 | 820pF/50V Chip (Ceramic) | CK73B1H103KT |
| C146 | 257 0010 020 | 0.01μF/50V | CKTODALIAOOKT |
| C146 | 257 0010 939 | Chip (Ceramic) 0.018μF/50V | CK73B1H183KT |
| C147 | 257 0010 942 | Chip (Ceramic) 0.002µF/25V | CK73B1H223KT |
| C148 | 257 0004 961 | Chip (Ceramic) 120pF/50V | CC73SL1H101JT |
| C149 | 257 0005 928 | Chip (Ceramic) | CC73SL1H181JT |
| C201 | 257 0004 987 | 180pF/50V Chip (Ceramic) | CC73SL1H121JT |
| 6000 | DEE 4000 005 | 120pF/50V | 00001444 |
| C202 | 255 1209 905 | Film 0.0056μF/50V | CQ93M1H562JT |
| C203 | 254 3056 917 | Electrolytic | CE04D1H010M8PT |
| 0004 | DEE 4047 005 | 1μF/50V (Bipolar) | SME |
| C204 C206 | 255 1217 900 | Film 0.027µF/50V | CQ93M1H273JT |
| | 254 4260 948 | Electrolytic 1µF/50V | CE04W1H010MT SME |
| C210, | 255 1204 900 | Film 0.0022μF/50V | CQ93M1H222JT |
| 211 C212 | 254 4278 943 | Electrolytic 0.56μF/50V | CE04W1HR56MT |
| C213 | 254 4260 922 | Electrolytic 0.33μF/50V | SME CE04W1HR33MT |
| C214 | 254 4254 909 | Electrolytic 10μF/16V | SME CE04W1C100MT |
| C215 | 254 4260 951 | Electrolytic 2.2μF/50V | SME CE04W1H2R2MT |
| C216 | 254 4260 948 | Electrolytic 1μF/50V | SME CE04W1H010MT |
| | | | SME |

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|---------------|--------------|--------------------------------|----------------------------|
| Ref. No. | Part No. | Part Name | Remarks |
| C217 | 253 1179 945 | Ceramic 220pF/50V | CK45B1H221KT DD-3 |
| C223 | 254 4261 918 | Electrolytic 47μF/50V | CE04W1H470MT |
| C224 | 254 4260 948 | Electrolytic 1μF/50V | CE04W1H010MT |
| C225 | 253 9031 962 | Ceramic 0.0027µF/25V | CK45-1E272KT |
| C228 | 254 4278 943 | Electrolytic 0.56μF/50V | CE04W1HR56MT SME |
| C229 | 254 4260 922 | Electrolytic 0.33μF/50V | CE04W1HR33MT SME |
| C230 | 254 4254 909 | Electrolytic 10μF/16V | CE04W1C100MT |
| C231 | 254 4254 909 | Electrolytic 10μF/16V | CE04W1C100MT SME |
| C232 | 253 9030 947 | Ceramic 0.0047µF/25V | CK45=1E472KT |
| C233 | 254 4258 905 | Electrolytic 4.7μF/35V | CE04W1V4R7MT SME |
| C234 | 254 4252 901 | Electrolytic 22μF/10V | CE04W1A220MT SME |
| C235 | 256 1034 953 | Metallized 0.068μF/50V | CF93A1H683JT |
| C236 | 253 9030 921 | Ceramic 0.0022µF/25V | CK45=1E222KT |
| C237 | 257 0005 902 | Chip (Ceramic) 150pF/50V | CC73SL1H151JT |
| C238 | 253 9031 991 | Ceramic 0.0082µF/25V | CK45=1E822KT |
| C239 | 253 9030 934 | Ceramic 0.0033µF/25V | CK45=1E332KT |
| C241 | 257 0009 979 | Chip (Ceramic) | CK73B1H562KT |
| C242 | 257 0004 961 | 0.0056μF/50V Chip (Ceramic) | CC73SL1H101JT |
| | | 100pF/50V | |
| ∆ C243 | 253,1131,909 | Ceramic 390pF/500V | CK45B2H391KT |
| C244 | 257 0006 985 | Chip (Ceramic) 820pF/50V | CC73SL1H821JT |
| C245 | 257 0010 900 | Chip (Ceramic) 0.01µF/50V | CK73B1H103KT |
| C246 | 257 0010 939 | Chip (Ceramic) 0.018µF/50V | CK73B1H183KT |
| C247 | 257 0010 942 | Chip (Ceramic) 0.022µF/25V | CK73B1E223KT |
| C248 | 257 0004 961 | Chip (Ceramic) 120pF/50V | CC73SL1H101JT |
| C249 | 257 0005 928 | Chip (Ceramic) 180pF/50V | CC73SL1H181JT |
| C301 | 254 4252 969 | Electrolytic 470μF/10V | CE04W1A471MT SME |
| C302 | 254 4252 969 | Electrolytic 470μF/10V | CE04W1A471MT SME |
| C303, 304 | 254 4254 909 | Electrolytic 10µF/16V | CE04W1C100MT |
| C305 | 254 4260 951 | Electrolytic 2.2μF/50V | SME CE04W1H2R2MT SME |
| C307 | 257 0009 940 | Chip (Ceramic) 0.0033μF/50V | CK73B1H332KT |
| C308 | 254 4252 901 | Electrolytic 22μF/10V | CE04W1A220MT SME |
| C309 | 257 0010 942 | Chip (Ceramic) 0.022μF/25V | CK73B1E223KT |
| C311 | 257 0009 966 | Chip (Ceramic) 0.0047µF/50V | CK73B1H472KT |
| C312, | 254 4254 909 | Electrolytic 10μF/16V | CE04W1C100MT |
| 313 | | | SME |
| C314 | 253 9031 904 | Ceramic 0.047µF/25V | CK45=1E473KT |
| C315 | 253 4535 942 | Ceramic 4pF/50V | CC45SL1H040CT DD-3 |
| C316 | 254 4254 909 | Electrolytic 10μF/16V | CE04W1C100MT SME |
| C317 | 254 4252 927 | Electrolytic 47μF/10V | CE04W1A470MT |
| * - | | | SME |

| | <u> </u> | | |
|--------------|------------------------------|--|------------------------------|
| Ref. No. | Part No. | Part Name | Remarks |
| C320 | 253 9031 917 | Ceramic 0.068µF/25V | CK45=1E683KT |
| C321 C324 | 255 4120 900 254 4256 949 | Film 0.0068μF/100V Electrolytic 100μF/25V | CQ93P2A682JT CE04W1E101MT |
| 0024 | 234 4230 343 | Electrolytic Toom 725V | SME |
| C326, | 254 4254 909 | Electrolytic 10μF/16V | CE04W1C100MT |
| 327 C330 | 257 0010 900 | Chin (Conomia) | SME |
| C330 | 257 0010 900 | Chip (Ceramic) 0.01μF/50V | CK73B1H103KT |
| C331 | 257 0009 995 | Chip (Ceramic) | CK73B1H822KT |
| 6222 | 057 0000 040 | 0.0082μF/50V | - |
| C332, 333 | 257 0009 940 | Chip (Ceramic) 0.0033µF/50V | CK73B1H332KT |
| C334, | 257 0014 935 | Chip (Ceramic) | CK73F1E104ZT |
| 335, | | 0.1μF/25V | |
| C336 | 257 0008 983 | Chip (Ceramic) 0.001µF/50V | CK73B1H102KT |
| C341 | 257 0010 942 | Chip (Ceramic) | CK73B1E223KT |
| | | 0.022μF/25V | |
| C342 | 257 0009 924 | Chip (Ceramic) | CK73B1H222KT |
| C343 | 257 0010 900 | 0.0022μF/50V Chip (Ceramic) | CK73B1H103KT |
| | | 0.01µF/50V | |
| C601 | 254 4260 964 | Electrolytic 3.3μF/50V | CE04W1H3R3MT |
| C602, | 257 0008 983 | Chip (Ceramic) | SME CK73B1H102KT |
| 603 | 237 0000 303 | 0.001µF/50V | CK75B11110ZK1 |
| C610 | 254 4260 951 | Electrolytic 2.2μF/50V | CE04W1H2R2MT SME |
| C620 | 253 9031 917 | Ceramic 0.068µF/25V | CK45-1E683KT |
| C622 | 253 9031 917 | Ceramic 0.068µF/25V | CK45=1E683KT |
| C623 | 253 9031 917 | Ceramic 0.068µF/25V | CK45=1E683KT CE04W1H010MT |
| C625 | 254 4260 948 | Electrolytic 1µF/50V | SME |
| C632 ~639 | 257 0008 983 | Chip (Ceramic) 0.001µF/50V | CK73B1H102KT |
| C640 | 257 0008 983 | Chip (Ceramic) | CK73B1H102KT |
| C701 | 254 4260 964 | 0.001μF/50V Electrolytic 3.3μF/50V | CE04W1H3R3MT |
| 6701 | 254 4200 504 | Liectrosytic 3.3µ1730V | SME |
| C799 | 254 4256 907 | Electrolytic 10μF/25V | CE04W1E100MT SME |
| C850 | 254 4254 909 | Electrolytic 10μF/16V | CE04W1C100MT SME |
| C900 | 254 4403 721 | Electrolytic 2200μF/25V | CE04W1E222MC |
| 6004 | 054 4400 740 | F1 | SMG |
| C901, 902 | 254 4403 718 | Electrolytic 1000μF/25V | CE04W1E102MC SMG |
| C903 | 254 4403 721 | Electrolytic 2200μF/25V | CE04W1E222MC SMG |
| C904, | 254 4252 930 | Electrolytic 100μF/10V | CE04W1A101MT |
| 905 C907 | 254 4414 707 | Electrolytic 470μF/50V | SME CE04W1A471MC |
| | | | SMG |
| C908 | 254 4258 947 | Electrolytic 47μF/35V | CE04W1V470MT SME |
| C909 | 254 4252 927 | Electrolytic 47μF/10V | CE04W1A470MT SME |
| C910 | 254 4258 947 | Electrolytic 47μF/35V | CE04W1V470MT |
| C911 | 254 4256 952 | Electrolytic 220μF/25V | CE04W1E221MT |
| C912 | 254 4260 951 | Electrolytic 2.2μF/50V | CE04W1H2R2MT |
| C915 | 257 0010 900 | Chip (Ceramic) | CK73B1H103KT |
| C917 | 257 0010 900 | 0.01μF/50V Chip (Ceramic) | CK73B1H103KT |
| | 25. 55.5 555 | 0.01μF/50V | |

| Ref. No. | Part No. | Part Name | Remarks |
|---------------|--------------|-------------------------------|---------------------|
| C918 | 257 0010 942 | Chip (Ceramic) 0.022μF/25V | CK73B1E223KT |
| C919 | 257 0010 900 | Chip (Ceramic) 0.01µF/50V | CK73B1H103KT |
| C920 | 254 4255 717 | Electrolytic 4700μF/16V | CE04W1C472MC SME |
| C921 | 259 0007 715 | Electrolytic 4700μF/5.5V | SB CAP==472=0 |
| OTHER PA | RTS | | |
| FL601 | 393 4128 000 | FL Tube | FIP6BCM6 |
| JK301 | 204 8261 003 | 4P Pin Jack | |
| JK303 | 204 8264 026 | Head Phone Jack | , |
| JK304 | 204 8416 007 | Mini Jack | |
| L101 | 231 0825 009 | :Bias Filter | |
| L102 | 232 0109 003 | :MPX Filter | |
| L103 | 235 0020 945 | Inductor 153JT | |
| L104 | 235 0020 903 | Inductor 682JT | |
| L105 | 239 0010 009 | :HX Step up coil | |
| L201 | 231 0825 009 | :Bias Filter | |
| L202 | 232 0109 003 | :MPX Filter | |
| L203 | 235 0020 945 | Inductor 153JT | |
| L204 | 235 0020 903 | Inductor 682JT | |
| L205 | 239 0010 009 | :HX Step up coil | |
| L301 | 231 0078 005 | :Oscilleator Coil | |
| SW651 ~654 | 212 4388 907 | Tact Switch | |
| SW656 ~659 | 212 4388 907 | Tact Switch | |
| SW661 ~666 | 212 4388 907 | Tact Switch | |
| XT601 | 399 0107 007 | Ceramic Resonator | CTS4.19MGW |
| CB291 | 205 0491 049 | 21P FFC Connector Base | Meter |
| CN141 | 205 0343 058 | 5P Connector Base (KR-PH) | Input VR |
| CN151 | 205 0343 032 | 3P Connector Base (KR-PH) | H/P Jack |
| CN171 | 205 0343 061 | 6P Connector Base (KR-PH) | Motor R/E Head |
| CN172 | 205 0343 045 | 4P Connector Base (KR-PH) | PB Head |
| CN691 | 205 0491 049 | 21P FFC Connector Base | |
| CN901 | 205 0711 075 | 7P TBG Connector Base | Power |
| W141 | 203 8207 006 | 5P KR-DA Connector Cord | |
| W151 | 203 4753 046 | 3P KR-DA Connector Cord | H/P Jack |
| W601 | 204 2257 071 | 9P KR-DA Connector Cord | |
| 11001 | | | |

WARNING:

 \bullet Parts marked with \triangle and/shading have special characteristics important to sefty.

Be sure to use the specified parts for replacement.

PARTS LIST OF 3U-2337 POWER SUPPLY UNIT

| Ref. No. | Part No. | Part Name | Remarks |
|------------|--------------|-------------------|------------------|
| SW001 | 212 0286 003 | POWER SWITCH | |
| C001 | 253 8014 702 | Ceramic CAPACITOR | CK45F2GAC103MC |
| | | 0.01µ/AC400V | |
| CN901 | 205 0711 075 | 7P TBG CONN.BASE | |
| Δ ** | 233 5756 001 | POWER TRANS. | Europe, U.K., |
| | | | Australia |
| Δ | 233 5758 009 | POWER TRANS. | U.S.A., Canada |
| Δ | 233 5760 000 | POWER TRANS. | Multiple Voltage |
| | | 14 | (Asia) |
| Δ . | 212 4698 008 | VOLTAGE SELECTOR | Multiple Voltage |
| | | | (Asia) Only |

PARTS LIST OF PACKING & ACCESSORIES

| Ref. No. | Part No. | Part Name | Remarks | Q'ty |
|----------|--------------|--------------------|----------------|------|
| | 504 0092 060 | STYRENE PAPER | For AC ORD | 1 |
| | 505 0131 050 | CABINET COVER | | 1 |
| | 503 0704 106 | PACKING ASS'Y | | 1 |
| | 503 9260 007 | CUSHION | Australia, | 2 |
| | | | U.K., Only | |
| | 502 9130 008 | PAD ASS'Y | Australia, | 1 |
| | | | U.K., Only | ļ |
| | 501 9254 046 | CARTON CASE | | 1 |
| | 513 9111 001 | COLOR LABEL (GOLD) | (Gold) Only | 1 |
| | 505 0038 030 | PORY COVER | | 1 |
| | 511 9371 007 | INST. MANUAL | Europe, U.K., | 1 |
| | | | Australia | |
| | 511 9370 008 | INST. MANUAL | U.S.A., | 1 |
| | | , | Canada, | |
| | | | Multiple | |
| | | | Voltage (Asia) | |
| | 511 9372 006 | INST. MANUAL | Asia Only | 1 |
| | 203 2360 004 | 2P PIN CORD | | 2 |
| | 203 5013 002 | 3P MINI PLUG CORD | | 1 |
| | 515 0455 005 | TAPE CATALOG (E2) | Europe, U.S.A. | 1 |
| | | | Only | |
| Φ | 203 3667 007 | PLUG ADAPTER | Multiple | 1 |
| | | | Voltage (Asia) | |
| | | | Only 🔩 | |

PARTS LIST OF EXPLODED VIEW

| F | Ref. No. | Part No. | Part Name | Remarks |
|---|--|--|---|--|
| • | 1 | 411 9124 006 | CHASSIS | 1 |
| • | | 411 9124 022 | CHASSIS | (Gold) |
| • | 2 | 412 2523 102 | EARTH BRACKET | 1 |
| • | 3 | 105 0787 107 | BOTTOM COVER | 1 |
| | 4 | 338 9024 005 | CASSETTE MECHA. | |
| 39 X S | 5 | 233 5985 005 | (CMAH) POWER TRANS: | l esatesean vales |
| Some faces | no Nazima | 233 3983 005 | POWER TRANS: | Europe, U.K., Australia |
| Δ | | 233 5758 009 | POWER TRANS. | U.S.A., Canada |
| | destal do | 233 5760 000 | POWER TRANS. | Multiple Voltag |
| | | | | (Asia) |
| À | 16 | 212 0286 003 | POWER SWITCH | |
| | 7 | 206 2063 009 | AC CORD WITH PLUG | The second of th |
| ∇ | On part | 206 2127 000 | AC CORD WITH LABEL | U.K. |
| Δ | | 206 2060 002 | AC CORD | U.S.A., Canada |
| Carlo Car | | 206 2122 005 | AC CORD | Australia |
| ∇V_{i} | CHICA | 200 6031 026 | AC CORD | Multiple Voltag |
| | l o state | AAF OOFO OOO | | (Asia) |
| | 18 77 T | 445 0056 008 45 | CORD BUSH | Transfer of the second |
| • | 9 10 | 412 2008 012 412 3401 003 | BUSHING PLATE | |
| ⊙ | 11 | 412 3401 003 | MECHA. BRACKET SHIELD LABEL | |
| ◉ | 12 | | FOOT ASS'Y | |
| • | 13 | KU- 9292 | AUDIO/METER P.W.B. | |
| | | | UNIT | |
| | 13-1 | | AUDIO P.W.B. | |
| | 13-2 | | METER P.W.B. | |
| | 13-3 | | H/P JACK P.W.B. | |
| | 13-4 | | INPUT VOL. P.W.B. | |
| ⊚ | 14 | 3U- 2337 | POWER TRANS. | |
| | | | P.W.B. UNIT | |
| | 15 | 205 0712 074 | 7P TBG-S CONNECTOR | |
| | 16 | 204 8261 003 | 4P PIN JACK | JK301 |
| | 17 23 | 204 8416 007 393 | MINI JACK | |
| | 25 25 | 431 0310 004 | FL TUBE POWER SW. LEVER | |
| | 23 | 431 0310 004 | ASS'Y | |
| | | 431 0310 020 | POWER SW. LEVER | |
| | | .51 0010 020 | ASS'Y | (Gold) |
| | 26 | 113 1481 306 | PUSH KNOB (B) | 100.01 |
| | | 113 1481 322 | PUSH KNOB (B) | (Gold) |
| | 27 | 113 1436 335 | FUNCTION KEY | • |
| | | 113 1436 351 | FUNCTION KEY | (Gold) |
| | 28 | 113 1480 200 | PUSH KNOB (A) | |
| | | 113 1480 226 | PUSH KNOB (A) | (Gold) |
| | 29 | 113 1438 003 | EJECT KNOB | |
| | 20 | 113 1438 029 | EJECT KNOB | (Gold) |
| | | 112 0515 131 | VOL. KNOB | ; (C-1-1) |
| | 30 | | VOL KNOD | - H-OIGH |
| | ! | 112 0515 144 | VOL. KNOB | (Gold) |
| | 31 | 112 0515 144 112 0727 000 | VOL. KNOB (C) | |
| • | 31 | 112 0515 144 112 0727 000 112 0727 013 | VOL. KNOB (C) VOL. KNOB (C) | (Gold) |
| •• | ! | 112 0515 144 112 0727 000 112 0727 013 103 9194 009 | VOL. KNOB (C) VOL. KNOB (C) FRONT ESC. ASS'Y | (Gold) |
| | 31 | 112 0515 144 112 0727 000 112 0727 013 103 9194 009 103 9194 012 | VOL. KNOB (C) VOL. KNOB (C) FRONT ESC. ASS'Y FRONT ESC. ASS'Y | |
| ◉ | 31 33 | 112 0515 144 112 0727 000 112 0727 013 103 9194 009 103 9194 012 | VOL. KNOB (C) VOL. KNOB (C) FRONT ESC. ASS'Y | (Gold) |
| ⊙ ⊙ | 31 33 | 112 0515 144 112 0727 000 112 0727 013 103 9194 009 103 9194 012 144 9195 009 144 9195 012 | VOL. KNOB (C) VOL. KNOB (C) FRONT ESC. ASS'Y FRONT PANEL | (Gold) (Gold) |
| ⊙ ⊙ | 31 33 34 | 112 0515 144 112 0727 000 112 0727 013 103 9194 009 103 9194 012 144 9195 009 144 9195 012 | VOL. KNOB (C) VOL. KNOB (C) FRONT ESC. ASS'Y FRONT PANEL FRONT PANEL | (Gold) (Gold) |
| ⊙ ⊙ | 31 33 34 35 36 37 | 112 0515 144 112 0727 000 112 0727 013 103 9194 009 103 9194 012 144 9195 009 144 9195 012 103 1511 305 463 0655 009 | VOL. KNOB (C) VOL. KNOB (C) FRONT ESC. ASS'Y FRONT PANEL FRONT PANEL CASSETTE BOX | (Gold) (Gold) |
| ⊙ ⊙ | 31 33 34 35 36 | 112 0515 144 112 0727 000 112 0727 013 103 9194 009 103 9194 012 144 9195 009 144 9195 012 103 1511 305 463 0655 009 | VOL. KNOB (C) VOL. KNOB (C) FRONT ESC. ASS'Y FRONT ESC. ASS'Y FRONT PANEL FRONT PANEL CASSETTE BOX CASSETTE SPRING BOX SPRING (R) CASSETTE WINDOW | (Gold) (Gold) |
| ⊙ ⊙ | 31 33 34 35 36 37 | 112 0515 144 112 0727 000 112 0727 013 103 9194 009 103 9194 012 144 9195 009 144 9195 012 103 1511 305 463 0655 009 463 0659 005 103 9195 008 | VOL. KNOB (C) VOL. KNOB (C) FRONT ESC. ASS'Y FRONT ESC. ASS'Y FRONT PANEL FRONT PANEL CASSETTE BOX CASSETTE SPRING BOX SPRING (R) CASSETTE WINDOW (A) ASS'Y | (Gold) (Gold) |
| ⊙ ⊙ | 31 33 34 35 36 37 | 112 0515 144 112 0727 000 112 0727 013 103 9194 009 103 9194 012 144 9195 009 144 9195 012 103 1511 305 463 0655 009 463 0659 005 103 9195 011 | VOL. KNOB (C) VOL. KNOB (C) FRONT ESC. ASS'Y FRONT ESC. ASS'Y FRONT PANEL FRONT PANEL CASSETTE BOX CASSETTE SPRING BOX SPRING (R) CASSETTE WINDOW (A) ASS'Y CASSETTE WINDOW | (Gold) (Gold) (Gold) |
| ⊙ ⊙ | 31 33 34 35 36 37 38 | 112 0515 144 112 0727 000 112 0727 013 103 9194 009 103 9194 012 144 9195 009 144 9195 012 103 1511 305 463 0655 009 463 0659 005 103 9195 011 | VOL. KNOB (C) VOL. KNOB (C) FRONT ESC. ASS'Y FRONT ESC. ASS'Y FRONT PANEL FRONT PANEL CASSETTE BOX CASSETTE SPRING BOX SPRING (R) CASSETTE WINDOW (A) ASS'Y CASSETTE WINDOW (A) ASS'Y | (Gold) (Gold) |
| ••• | 31 33 34 35 36 37 38 | 112 0515 144 112 0727 000 112 0727 013 103 9194 009 103 9194 012 144 9195 009 144 9195 012 103 1511 305 463 0655 009 463 0659 005 103 9195 008 | VOL. KNOB (C) VOL. KNOB (C) FRONT ESC. ASS'Y FRONT ESC. ASS'Y FRONT PANEL FRONT PANEL CASSETTE BOX CASSETTE SPRING BOX SPRING (R) CASSETTE WINDOW (A) ASS'Y CASSETTE WINDOW (A) ASS'Y MINI DAMPER | (Gold) (Gold) (Gold) |
| ⊙ | 31 33 34 35 36 37 38 | 112 0515 144 112 0727 000 112 0727 013 103 9194 009 103 9194 012 144 9195 009 144 9195 012 103 1511 305 463 0655 009 463 0659 005 103 9195 008 103 9195 011 | VOL. KNOB (C) VOL. KNOB (C) FRONT ESC. ASS'Y FRONT ESC. ASS'Y FRONT PANEL FRONT PANEL CASSETTE BOX CASSETTE SPRING BOX SPRING (R) CASSETTE WINDOW (A) ASS'Y CASSETTE WINDOW (A) ASS'Y | (Gold) (Gold) (Gold) |

| Ref. No. | Part No. | Part Name | Remarks |
|----------|--------------|------------------|-----------------|
| | 102 0434 406 | TOP COVER | *************** |
| • | 102 0434 419 | TOP COVER | (Gold) |
| 101 | 473 7508 017 | 13×10 CBTS (P)-B | , |
| 102 | 477 0262 006 | SPECIAL SCREW | |
| 103 | 473 7502 013 | 4×10 CBTS (P)-Z | |
| 104 | 473 7503 038 | 4×10 CTTS (P)-BK | i. |
| | 473 7503 041 | 4×10 CTTS (P)-NI | (Gold) |
| 105 | 473 7500 044 | 3×8 CBTS (P)-B | |
| 106 | 473 7002 018 | 3×8 CBTS (S)-Z | |
| 107 | 473 7001 035 | 2.6×6 CBTS (S)-Z | |

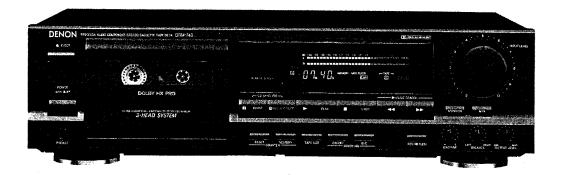
WARNING:

- Parts marked with and/or shading have special characteristics important to safety.
 Be sure to use the specified parts for replacement.
- (Gold) in the Remarks column refers with gold front panels.
- Part indicated with the mark ② are not always in stock and
 possibly to take a long period of time for supplying, or in some case
 supplying of part may be refused.

DENON

Hi-Fi Component

SERVICE MANUAL MODEL DRM-740 STEREO CASSETTE TAPE DECK



Please use this Supplement when repairing or adjusting products whose serials numbers (on the rear panel) have "76" as the 4th and 5th digits. ($\square\square\square$ 76 $\square\square\square\square\square$)

Since this Supplement contains only those pages which differ from the previously issued DRM-740 Service Manual (back page No. 0419), the Supplement should be used together with the DRM-740 Service Manual whenever repairs and adjustments are being carried out.

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NIPPON COLUMBIA CO., LTD.

PARTS LIST OF KU-9299 DISPLAY UNIT

| Ref. No | Part No. | Part Name | Remarks |
|--|--|---------------------------------------|-----------------------|
| SEMICOND | UCTORS GROU | JP | |
| IC602, 603 | 263 0620 007 | IC BA10393 | |
| IC606 | 262 1995 000 | μ-Computer | |
| | | UPD75212ACW-A89 | |
| IC609 | 499 0150 008 | Remote Sensor SBX1610-52 | |
| TR601 | 269 0112 908 | Transistor DTC144WS | Built in Resistor |
| | | (47K-22K)T | |
| TR604, 605 | 269 0020 906 | Transistor DTC114ES | Built in Resistor |
| | | (10K-10K) T | |
| D605 | 276 0432 903 | Diode 1SS270A TE | |
| D610~613 | 276 0432 903 | Diode 1SS270A TE | |
| D651~654 | 276 0432 903 | Diode 1SS270A TE | |
| D656~659 | 276 0432 903 | Diode 1SS270A TE | |
| D661~666 | 276 0432 903 | Diode 1SS270A TE | |
| D702 | 276 0432 903 | Diode 1SS270A TE | |
| D707 | 276 0432 903 | Diode 1SS270A TE | |
| D777 | 276 0432 903 | Diode 1SS270A TE | |
| RESISTORS | GROUP | | |
| (not included | Carbon Film ± | 5% 1/4W type) | |
| VR301 | 211 0734 002 | Valiable 5 Kohm(INPUT) | V1420HFA502R |
| CAPACITOR | S GROUP | | |
| C602, 603 | 253 9030 905 | Ceramic 0.001µF/25V | CK45-1E102KT |
| C610 | 254 4260 951 | Electolytic 2.2µF/50V | CE04W1H2R2MT SM |
| C620 | 253 9031 917 | Ceramic 0.068µF/25V | CK45-1E683KT |
| C625 | 254 4260 948 | Electolytic 1µF/50V | CE04W1H010MT SM |
| C632~640 | 253 9030 905 | Ceramic 0.001µF/25V | CK45=1E102KT |
| | | I | |
| OTHER PAR | TS | | |
| | TS 212 4388 907 | Tact Switch | |
| SW651~654 | | Tact Switch | |
| SW651~654 SW656~659 | 212 4388 907 | | |
| SW651~654 SW656~659 | 212 4388 907 212 4388 907 | Tact Switch | BJ281GK |
| SW651~654 SW656~659 SW661~666 | 212 4388 907 212 4388 907 212 4388 907 | Tact Switch Tact Switch | BJ281GK CST4.19MGW |
| SW651~654 SW656~659 SW661~666 FL601 | 212 4388 907 212 4388 907 212 4388 907 393 8018 006 | Tact Switch Tact Switch FL Tube | |

PARTS LIST OF KU-9300 AUDIO1 UNIT

| ARTS LIST OF KU-9300 AUDIO1 UNIT | | | | |
|----------------------------------|-----------------|-----------------------------|---------------------|--|
| Ref. No | Part No. | Part Name | Remarks | |
| SEMICOND | UCTORS GROU | JP | | |
| IC104 | 263 0711 000 | IC M5218AP | | |
| IC305 | 263 0565 007 | IC BA15218 | | |
| IC306 | 263 0715 006 | IC CXA1330S | | |
| IC307 | 263 0565 007 | IC BA15218 | | |
| IC309 | 263 0354 001 | IC UPC1297CA | | |
| TR103 | 275 0048 912 | Transistor 2SK381 (B)/(C)-T | | |
| TR105 | 269 0015 908 | Transistor DTC124XS | Built in Resistor | |
| | | (22K-47K) T | | |
| TR106 | 273 0245 900 | Transistor 2SC2603E/F T | | |
| TR108~110 | 269 0015 908 | Transistor DTC124XS | Built in Resistor | |
| | | (22K-47K) T | | |
| TR203 | 275 0048 912 | Transistor 2SK381 (B)/(C)-T | | |
| TR205 | 269 0015 908 | Transistor DTC124XS | Built in Resistor | |
| | | (22K-47K) T | | |
| TR206 | 273 0245 900 | Transistor 2SC2603E/F T | | |
| TR208~210 | 269 0015 908 | Transistor DTC124XS | Built in Resistor | |
| | | (22K-47K) T | | |
| TR304, 305 | 269 0015 908 | Transistor DTC124XS | Built in Resistor | |
| - | | (22K-47K) T | | |
| TR306, 307 | 273 0245 900 | Transistor 2SC2603E/F T | | |
| TR308 | 272 0025 907 | Transistor 2SB562(C)TF | | |
| TR311 | 269 0040 902 | Transistor DTC144ES | Built in Resistor | |
| | | (47K-47K) T | Danit III Tiesistoi | |
| D101 | 276 0432 903 | Diode 1SS270A TE | ' | |
| D201 | 276 0432 903 | Diode 1SS270A TE | | |
| D304, 305 | 276 0468 906 | Zener Diode HZS9B-1 TD | | |
| | | Editor Didde 112000 1 10 | | |
| RESISTORS | | | | |
| (not inclu | ded Carbon Filr | n ±5% 1/4W type) | | |
| VR302 | 211 0735 001 | Valiable 10K ohm (BALANCE) | V09V25FW103- | |
| VR303 | 211 0706 001 | | V09V25FB102K | |
| VR304 | 211 0736 000 | Valiable 10K ohm (OUTPUT) | i | |
| RT103 | 211 6093 697 | Adjust 47K ohm | V06PB473T | |
| RT104 | 211 6047 049 | Adjust 22K ohm | V06PB223 | |
| RT203 | 211 6093 967 | Adjust 47K ohm | V06PB473T | |
| RT204 | 211 6047 049 | Adjust 22K ohm | V06PB223 | |
| CAPACITOR | C CDOLID | | | |
| CAPACITOR | S GROUP | | | |
| C123 | 254 4261 918 | Electolytic 47μF/50V | CE04W1H470MT SME | |
| C124 | 254 4260 948 | Electolytic 1µF/50V | CE04W1H010MT SME | |
| C125 | 253 9031 962 | Ceramic 0.0027μF/25V | CK45=1E272KT | |
| C126, 127 | 255 1204 900 | Film 0.0022µF/50V | CQ93M1H222JT | |
| C128 | 254 4278 943 | Electolytic 0.56µF/50V | CE04W1HR56MT SME | |
| C129 | 254 4260 922 | Electolytic 0.33µF/50V | CE04W1HR33MT SME | |
| C130, 131 | 254 4254 909 | Electolytic 10µF/16V | CE04W1C100MT SME | |
| C132 | 253 9030 947 | Ceramic 0.0047μF/25V | CK45=1E472KT | |
| C133 | 254 4258 905 | Electolytic 4.7µF/35V | CE04W1V4R7MT SME | |
| C134 | 254 4252 901 | Electolytic 22μF/10V | CE04W1A220MT SME | |
| C135 | 256 1034 953 | Metalized 0.068µF/50V | CF93A1H683JT | |
| C136 | 253 9030 921 | Ceramic 0.0022μF/25V | CK45=1E222KT | |
| C137 | 256 1179 929 | Ceramic 150pF/50V | CK45B1H151KT DD-3 | |
| C138 | 253 9031 991 | Ceramic 0.0082µF/25V | CK45-1E822KT | |
| C139 | 253 9030 934 | Ceramic 0.0033µF/25V | CK45-1E332KT | |
| C141 | 253 9033 988 | Ceramic 0.0056μF/25V | CK45=1E562KT | |
| C142 | 253 1179 903 | Ceramic 100pF/50V | CK45B1H101KT DD-3 | |
| C143 | | Ceramic 390pF/500V | CK4582H391KT | |
| C144 | 253 1111 903 | Ceramic 820pF/50V | CK45B1H821KT DD-3 | |
| C145 | 253 9030 963 | Ceramic 0.01µF/25V | CK45=1E103KT | |
| C146 | 253 9031 959 | Ceramic 0.0018µF/25V | CK45=1E182KT | |
| C147 | 253 9030 989 | Ceramic 0.022µF/25V | CK45=1E223KT | |
| C149 | 253 1179 932 | Ceramic 180pF/50V | CK45B1H181KT DD-3 | |
| C223 | 254 4261 918 | Electolytic 47µF/50V | CE04W1H470MT SME | |
| C224 | 254 4260 948 | Electolytic 1µF/50V | CE04W1H010MT SME | |
| C225 | 253 9031 962 | Ceramic 0.0027μF/25V | CK45=1E272KT | |
| C226, 227 | 255 3031 302 | Film 0.0022µF/50V | CQ93M1H222JT | |
| C228, 227 | 254 4278 943 | Electolytic 0.56µF/50V | CE04W1HR56MT SME | |
| C228 C229 | 254 4278 943 | Electolytic 0.33µF/50V | CE04W1HR33MT SME | |
| GEES | ~04 4200 322 | LIECTORYTIC U.33HF/50V | OFOAM ILLIONNI SME | |

| Ref. No | Part No. | Part Name | Remarks |
|------------|--------------|-----------------------|--------------------|
| C230, 231 | 254 4254 909 | Electolytic 10µF/16V | CE04W1C100MT SMI |
| C232 | 253 9030 947 | Ceramic 0.0047μF/25V | CK45-1E472KT |
| C233 | 254 4258 905 | Electolytic 4.7µF/35V | CE04W1V4R7MT SM |
| C234 | 254 4252 901 | Electolytic 22µF/10V | CE04W1A220MT SM |
| C235 | 256 1034 953 | Metalized 0.068µF/50V | CF93A1H683JT |
| C236 | 253 9030 921 | Ceramic 0.0022μF/25V | CK45-1E222KT |
| C237 | 256 1179 929 | Ceramic 150pF/50V | CK45B1H151KT DD-3 |
| C238 | 253 9031 991 | Ceramic 0.0082µF/25V | CK45-1E822KT |
| C239 | 253 9030 934 | Ceramic 0.0033µF/25V | CK45-1E332KT |
| C241 | 253 9033 988 | Ceramic 0.0056µF/25V | CK45-1E562KT |
| C242 | 253 1179 903 | Ceramic 100pF/50V | CK45B1H101KT DD-: |
| ∆ C243 | 253 1131 909 | Ceramic 390pF/500V | CK45B2H391KT |
| C244 | 253 1111 903 | Ceramic 820pF/50V | CK45B1H821KT DD-3 |
| C245 | 253 9030 963 | Ceramic 0.01 µF/25V | CK45-1E103KT |
| C246 | 253 9031 959 | Ceramic 0.0018µF/25V | CK45-1E182KT |
| C247 | 253 9030 989 | Ceramic 0.022µF/25V | CK45=1E223KT |
| C249 | 253 1179 932 | Ceramic 180pF/50V | CK45B1H181KT DD-3 |
| C309 | 253 9030 989 | Ceramic 0.022µF/25V | CK45-1E223KT |
| C312, 313 | 254 4254 909 | Electolytic 10μF/16V | CE04W1C100MT SM |
| C314 | 253 9031 904 | Ceramic 0.047µF/25V | CK45-1E473KT |
| C315 | 253 4535 942 | Ceramic 4pF/50V | CC45SL1H040CT DD-3 |
| C316 | 254 4254 909 | Electolytic 10μF/16V | CE04W1C100MT SMI |
| C317 | 254 4252 927 | Electolytic 47μF/10V | CE04W1A470MT SMI |
| C321 | 255 4120 900 | Film 0.0068µF/100V | CQ93P2A682JT |
| C324 | 254 4256 949 | Electolytic 100μF/25V | CE04W1E101MT SMI |
| C326, 327 | 254 4254 909 | Electolytic 10µF/16V | CE04W1C100MT SM |
| C330 | 253 9030 963 | Ceramic 0.01 µF/25V | CK45-1E103KT |
| C331 | 253 9031 991 | Ceramic 0.0082μF/25V | CK45=1E822KT |
| C332, C333 | 253 9030 934 | Ceramic 0.0033µF/25V | CK45-1E322KT |
| C336 | 253 9030 905 | Ceramic 0.001µF/25V | CK45-1E102KT |
| C622 | 253 9031 917 | Ceramic 0.0068µF/25V | CK45=1E683KT |
| OTHER PAR | TS | | |
| JK301 | 204 8261 003 | 4P Pin Jack | |
| L102 | 232 0109 003 | MPX Filter | |
| L103 | 235 0020 945 | Inductor 153JT | |
| L104 | 235 0020 903 | Inductor 682JT | |
| L105 | 239 0010 009 | HX Step up coil | |
| L202 | 232 0109 003 | MPX Filter | |
| L203 | 235 0020 945 | Inductor 153JT | |
| L204 | 235 0020 903 | Inductor 682JT | |
| L205 | 239 0010 009 | HX Step up coil | |
| L301 | 231 0078 005 | Oscillator Coil | |

PARTS LIST OF KU-9301 AUDIO2 UNIT

| Ref. No. | Part No. | Part Name | Remarks |
|-----------------------|------------------------------|---|------------------------------|
| SEMICONDU | JCTORS GROU | JP . | I |
| | | | |
| IC103 IC301 | 262 0276 005 262 0864 006 | IC HD14066BP IC UPC4570C | |
| IC301 | 263 0715 006 | IC CXA1330S | |
| IC302 | 263 0713 000 | IC M5218AP | |
| IC304 | 263 0711 000 | IC BA15218 | |
| IC308 | 263 0565 007 | IC BA15218 | |
| IC601 | 263 0565 007 | IC BA15218 | |
| IC604, 605 | 262 1295 001 | IC UPD4094BC | |
| 1C904, 905 | 262 0447 009 | IC BA6109U1 | |
| TR101, 102 | 273 0245 900 | Transistor 2SC2603E/F T | |
| TR111 | 273 0245 900 | Transistor 2SC2603E/F T | |
| TR201, 202 | 273 0245 900 | Transistor 2SC2603E/F T | |
| TR211 | 273 0245 900 | Transistor 2SC2603E/F T | · |
| TR301 | 269 0019 904 | Transistor DTA143XS | Built in Resistor |
| | 203 0013 304 | (4.7K-10K) T | Duilt in Mesistor |
| TR302 | 269 0062 906 | Transistor DTC124XS | Built in Resistor |
| 11.002 | 203 0002 300 | (22K-22K) T | Built in Nesistoi |
| TR316 | 269 0015 908 | Transistor DTC124XS | Puilt in Posistor |
| | 200 0010 300 | (22K-47K) T | Built in Resistor |
| TR317 | 269 0040 902 | Transistor DTC144ES | Ruilt in Resister |
| 111017 | 200 0040 302 | (47K-47K) T | Built in Resistor |
| TR321, 322 | 260 0019 005 | | Duille in Desires |
| 10321, 322 | 269 0018 905 | Transistor DTC143ES | Built in Resistor |
| TR323 | 269 0020 904 | (4.7K-4.7K) T Transistor DTA143ES | Duile in Desistan |
| 111323 | 209 0020 904 | (4.7K-4.7K) T | Built in Resistor |
| TR850 | 269 0015 908 | Transistor DTC124XS | Built in Bosiston |
| 111050 | 203 0015 306 | | Built in Resistor |
| TR908 | 269 0015 908 | (22K-47K) T | Quilt in Desistar |
| 1000 | 209 0015 908 | Transistor DTC124XS | Built in Resistor |
| TR909 | 272 0025 907 | (22K-47K) T Transistor 2SB562 (C) TF | |
| TR910 | 269 0090 907 | Transistor DTC143XS-T | Built in Resistor |
| D301, 302 | 276 0432 903 | Diode 1SS270A TE | built iii nesistoi |
| D301, 302 D308 | 276 0432 903 | Diode 1SS270A TE | |
| D310 | 276 0432 903 | Diode 1SS270A TE | |
| D310 | 276 0452 905 | Zener Diode HZS9B-1 TD | |
| D311 | 276 0432 903 | Diode 1SS270A TE | |
| D312 | 276 0452 905 | Zener Diode HZS9B-1 TD | |
| D601 | 276 0432 903 | Diode 1SS270A TE | |
| D669 | 276 0432 903 | Diode 1SS270A TE | |
| D701 | 276 0432 903 | Diode 1SS270A TE | |
| D917 | | Zener Diode HZS5C-1 TD | |
| D919 | 276 0460 908 276 0466 908 | Zener Diode HZS7C-1 TD | |
| D920 | 276 0400 906 | Zener Diode HZS11B-1 TD | |
| 1 | | | |
| D921 | 276 0553 905 | Diode 1SR35-200A (T93X) | |
| RESISTORS | GROUP | | |
| (not included | l Carbon Film ± | :5% 1/4W type) | |
| R917 | 244 0077 028 | Metal oxide film 18 ohm | RS14B3D180JNBF |
| 9 | | 2W (Non-burning type) | |
| and the second second | 241 2315 912 | Carbon (Fusible) 10 ohm | AD14B2E100GFRST |
| RT101 | 211 6047 | Adjust 22K ohm | V06PB223 |
| RT201 | 211 6047 049 | Adjust 22K ohm | V06PB223 |
| 1 | | riajor zzir olili | 1,700, 5220 |
| CAPACITOR | S GROUP | | |
| C101 | 253 1179 916 | Ceramic 120pF/50V | CK45B1H121KT |
| | | | DD-3 |
| C102 | 255 1209 905 | Film 0.0056µF/50V | CQ93M1H562JT |
| C103 | 254 3056 917 | Electolytic 1µF/50V | CE04D1H010MBPT |
| | | (Bipolar) | SME |
| C104 | 255 1217 900 | Film 0.027µF/50V | CQ93M1H273JT |
| C106 | 254 4260 948 | Electolytic 1µF/50V | CE04W1H010MT |
| C100 | | • • | SME |
| C100 | | | l |
| C110,111 | 255 1204 900 | Film 0.0022uF/50V | CQ93M1H222JT |
| • | 255 1204 900 254 4278 943 | Film 0.0022µF/50V Electolytic 0.56µF/50V | CQ93M1H222JT CE04W1HR56MT |
| C110,111 | | Film 0.0022μF/50V Electolytic 0.56μF/50V | |
| C110,111 | | | CE04W1HR56MT |

| Ref. No. | Part No. | Part Name | Remarks |
|-----------|--------------|------------------------|---------------------|
| C114 | 254 4254 909 | Electolytic 10μF/16V | CE04W1C100MT SME |
| C115 | 254 4260 951 | Electolytic 2.2μF/50V | CE04W1H2R2MT SME |
| C116 | 254 4260 948 | Electolytic 1μF/50V | CE04W1H010MT |
| C117 | 253 1179 945 | Ceramic 220pF/50V | CK45B1221KT DD-3 |
| C148 | 253 1179 903 | Ceramic 100pF/50V | CK45B1H101KT DD-3 |
| C201 | 253 1179 916 | Ceramic 120pF/50V | CK45B1H121KT DD-3 |
| C202 | 255 1209 905 | Film 0.0056µF/50V | CQ93M1H562JT |
| C203 | 254 3056 917 | Electolytic 1µF/50V | CE04D1H010MBPT |
| | | (Bipolar) | SME |
| C204 | 255 1217 900 | Film 0.027μF/50V | CQ93M1H273JT |
| C206 | 254 4260 948 | Electolytic 1μF/50V | CE04W1H010MT SME |
| C210, 211 | 255 1204 900 | Film 0.0022µF/50V | CQ93M1H222JT |
| C212 | 254 4278 943 | Electolytic 0.56µF/50V | CE04W1HR56MT |
| | | | SME |
| C213 | 254 4260 922 | Electolytic 0.33μF/50V | CE04W1HR33MT SME |
| C214 | 254 4254 909 | Electolytic 10μF/16V | CE04W1C100MT |
| C215 | 254 4260 954 | Electolytic 2.2µF/50V | CE04W1H2R2MT |
| C216 | 254 4260 948 | Electolytic 1μF/50V | CE04W1H010MT SME |
| C217 | 253 1179 945 | Ceramic 220pF/50V | CK45B1H221KT DD-3 |
| C248 | 253 1179 903 | Ceramic 100pF/50V | CK45B1H101KT DD-3 |
| C301, 302 | 254 4252 969 | Electolytic 470μF/10V | CE04W1A471MT SME |
| C303, 304 | 254 4254 909 | Electolytic 10µF/16V | CE04W1C100MT |
| C305 | 254 4260 951 | Electolytic 2.2μF/50V | CE04W1H2R2MT |
| C307 | 253 9030 934 | Ceramic 0.0033µF/25V | CK45=1E332KT |
| C308 | 254 4252 901 | Electolytic 22μF/10V | CE04W1A220MT SME |
| C311 | 253 9030 947 | Ceramic 0.0047µF/25V | CK45=1E472KT |
| C320 | 253 9031 917 | Ceramic 0.068µF/25V | CK45-1E683KT |
| C334, 335 | 253 9039 906 | Ceramic 0.1µF/25V | CK45=1E104ZT DD-3 |
| C341 | 253 9030 989 | Ceramic 0.022µF/25V | CK45-1E223KT |
| C342 | 253 9030 921 | Ceramic 0.0022µF/25V | CK45-1E222KT |
| C343 | 253 9030 963 | Ceramic 0.01µF/25V | CK45-1E103KT |
| C601 | 254 4260 964 | Electolytic 3.3μF/50V | CE04W1H3R3MT SME |
| C623 | 253 9031 917 | Ceramic 0.068µF/25V | CK45-1E683KT |
| C701 | 254 4260 964 | Electolytic 3.3μF/50V | CE04W1H3R3MT SME |
| C799 | 254 4256 907 | Electolytic 10μF/25V | CE04W1E100MT |
| C850 | 254 4254 909 | Electolytic 10μF/16V | CE04W1C100MT |
| C915 | 253 9030 963 | Ceramic 0.01µF/25V | CK45-1E103KT |
| C917 | 253 9030 963 | Ceramic 0.01µF/25V | CK45=1E103KT |
| C918 | 253 9030 989 | Ceramic 0.022µF/25V | CK45-1E223KT |
| C919 | 253 9030 963 | Ceramic 0.01µF/25V | CK45-1E103KT |
| C920 | 254 4255 717 | Electolytic 4700μF/16V | CE04W1C472MC |
| OTHER PAR | TS | | SME |
| JK304 | 204 8461 007 | Mini Jack | |
| _101 | 232 0825 009 | Bias Filter | |
| L201 | 232 0825 009 | Bias Filter | |
| | | 21P FFC Connectoe Base | 1 |

PARTS LEST OF KU-9311 POWER UNIT

| Ref. No. | Part No. | Part Name | Remarks |
|---|--|---|--|
| SEMICOND | UCTORS GROU | JP | |
| IC901 | 263 0810 008 | IC NJM7808FA(S) | |
| IC902 | 263 0503 001 | IC NJM7908A | 1. |
| IC903 | 263 0793 002 | IC NJM7806FA(S) | |
| TR904 | 272 0025 907 | Transistor 2SB562(C)TF | |
| D901~906 | 276 0553 905 | Diode 1SR35-200A (T93X) | |
| D909, 910 | 276 0432 903 | Diode 1SS270A TE | |
| D911, 912 | 276 0553 905 | Diode 1SR35-200A (T93X) | |
| D914 | 276 0483 907 | Zener Diode HZS30-1TD | |
| D915 | 276 0468 906 | Zener Diode HZS9B-1TD | |
| D918 | 276 0461 903 | Zener Diode HZS6A-1TD | |
| D922, 923 | 276 0553 905 | Diode 1SR35-200A (T93X) | |
| CAPACITOR | | DIOGC 101133 200A (133A) | <u> </u> |
| | T | | T |
| C001 | 253 8014 702 | Ceramic Capacitor | CK45F2GAC103MC |
| | | 0.01μF/400VAC | |
| C900 | 254 4403 721 | Electolytic 2200µF/25V | CE04W1E222MC |
| | | | SMG |
| C901, 902 | 254 4403 718 | Electolytic 1000µF/25V | CE04W1E102MC |
| | | | SMG |
| C903 | 254 4403 721 | Electolytic 2200µF/25V | CE04W1E222MC |
| | | | SMG |
| C904, 905 | 254 4252 930 | Electolytic 100µF/10V | CE04W1A101MC |
| | | | SME |
| C907 | 254 4414 707 | Electolytic 470µF/50V | CE04W1H471MC |
| | | , | SMG |
| C908 | 254 4258 947 | Electolytic 47µF/35V | CE04W1V470MT |
| | | ' ' | SME |
| C909 | 254 4252 927 | Electolytic 47µF/10V | CE04W1A470MT |
| | | , | SME |
| C910 | 254 4258 947 | Electolytic 47µF/35V | CE04W1V470MT |
| | | 2.00.001/110 1/41/004 | SME |
| C911 | 254 4256 952 | Electolytic 220µF/25V | CE04W1E221MT |
| | 201 1200 002 | Εισστοιγίας 220μι 723 | SME |
| C912 | 254 4260 951 | Electolytic 2.2µF/50V | CE04W1H2R2MT |
| 0312 | 234 4200 331 | Electorytic 2.2μF/50V | 1 |
| C921 | 254 4250 796 | Flores 4700 F (6.2) (| SME |
| 0321 | 254 4250 796 | Electolytic 4700μF/6.3V | CE04W0J472MC |
| | - | | SME |
| OTHER PAR | TS | | S Secret Control of the Control of t |
| <u>1</u> SW001 | THE COLUMN TWO IS NOT | Power Switch (TV-3) | 110000 |
| <u>1</u> 1901 / | 233 5985 005 | Power Transformer | Europe, UK |
| 145 Avg 150 Avg | 25.25 | 多是是特别的 A. P.A. | Australia |
| <u>∿</u> T901 | 233 5758 009 | Power Transformer: | USA Canada |
| ⊈. 1901 / | 233 5760 000 | Power Transformer | Multi-Voltage |
| ¹∆ T901 | Company of the Compan | Fuse (0.25)A | Multi Voltage only |
| | Charles Control of the Control | Fuse Holder | Multi-Voltage only |
| NSW002 | 212 4698 008 | Voltage Selector (D) | Multi-Voltage only |

PARTS LIST OF PACKING & ACCESSORIES

| Ref. No. | Part No. | Part Name | Remarks | Q'ty |
|-----------------------|--------------|---|--|------|
| | 504 0092 060 | STYRENE PAPER | For AC ORD | 1 |
| | 505 0131 050 | CABINET COVER | | 1 |
| | 503 0704 106 | PACKING ASS'Y | | 1 |
| | 503 9260 007 | CUSHION | Australia, U.K., Only | 2 |
| | 502 9130 008 | PAD ASS'Y | Australia, U.K., Only | 1 |
| | 501 9254 046 | CARTON CASE | | 1 |
| | 513 9111 001 | COLOR LABEL (GOLD) | (Gold) Only | 1 |
| | 505 0038 030 | PORY COVER | | 1 |
| | 511 9371 007 | INST. MANUAL | Europe, U.K., | 1 |
| | | | Australia | |
| | 511 9370 008 | INST. MANUAL | U.S.A., | 1 |
| | | | Canada, | |
| | | | Multiple | 1 |
| | | | Voltage (Asia) | |
| | 511 9372 006 | INST. MANUAL | Asia Only | 1 |
| | 203 2360 004 | 2P PIN CORD | | 2 |
| | 203 5013 002 | 3P MINI PLUG CORD | | 1 |
| | 515 0455 005 | TAPE CATALOG (E2) | Europe, U.S.A. | 1 |
| carament blackmannels | | | Only | |
| Δ | 203 3667 007 | PLUG ADAPTER : 1911 191 | Multiple I I I I I I I I I I I I I I I I I I I | 14 |
| | | 19 10 00 00 00 00 00 00 00 00 00 00 00 00 | Voltage (Asia) | |
| | The second | | Only | 400 |

PARTS LIST OF EXPLODED VIEW

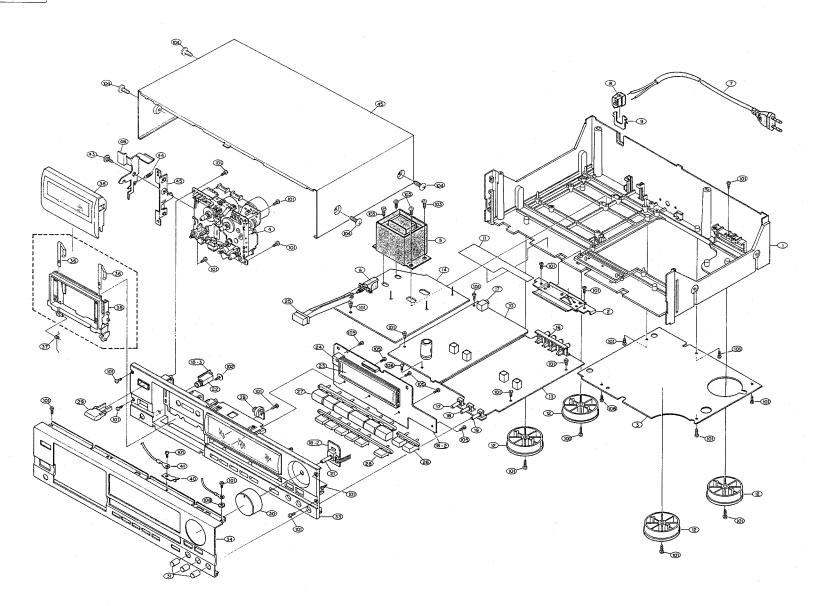
| Ref. No. | Part No. | Part Name | Remarks |
|----------------------------------|------------------------------|--|------------------|
| ● 1 | 411 9124 006 | CHASSIS | |
| • | 411 9124 022 | CHASSIS | (Gold) |
| ● 2 | 412 2523 102 | EARTH BRACKET | |
| ● 3 | 105 0787 107 | BOTTOM COVER | |
| 4 | 338 9024 005 | CASSETTE MECHA. | |
| | | (CMAH) | |
| A D | रेट्डा स्ट्रास, तत्त्र | POWER TRANS | Europe, U.K. |
| | | | Australia 💎 🦠 |
| 46 | | POWER TRANS | U.S.A., Canada |
| 4 | ESP2/(0)(100) | POWER TRANS | Multiple Voltage |
| | | | (Asia) |
| 21.6 3.7 | | POWER SWITCH | SW001 |
| | | (Acadendewitte plane) | Europe |
| | 206 2127 000 | The state of the s | JUK 1 |
| 70 | 206 2060 002 206 2122 005 | AC CORD #12 #44-45-144 | U.S.A., Canada |
| American | 200 6031 026 | AC CORD | Australia 👫 🔭 |
| | | | Multiple Voltage |
| AV8 | 445 0056 008 | | (Asia) |
| | 412 2008 012 | BUSHING PLATE | |
| ● 10 | KU- 9301 | AUDIO 2 P.W.B. UNIT | |
| ● 11 | 414 0637 009 | SHIELD LABEL | |
| 12 | 104 0208 201 | FOOT ASS'Y | |
| ● 13 | KU- 9300 | AUDIO1 P.W.B. UNIT | |
| • 14 | KU- 9311 | POWER P.W.B. UNIT | |
| 15 | 205 0712 074 | 7P TBG-S CONNECTOR | |
| 16 | 204 8261 003 | 4P PIN JACK | JK301 |
| 17 | 204 8416 007 | MINI JACK | 0.001 |
| • 18 | KU- 9299 | DISPLAY P.W.B. UNIT | |
| 18-1 | | METER UNIT | |
| 18-2 | | INPUT VR UNIT | |
| 18-3 | | HEAD PHONE UNIT | |
| 23 | 393 8018 006 | FL TUBE | |
| 25 | 431 0310 004 | POWER SW. LEVER ASS'Y | |
| | 431 0310 020 | POWER SW. LEVER ASS'Y | (Gold) |
| 26 | 113 1481 306 | PUSH KNOB (B) | |
| | 113 1481 322 | PUSH KNOB (B) | (Gold) |
| 27 | 113 1436 335 | FUNCTION KEY | |
| | 113 1436 351 | FUNCTION KEY | (Gold) |
| 28 | 113 1480 200 | PUSH KNOB (A) | |
| | 113 1480 226 | PUSH KNOB (A) | (Gold) |
| 29 | 113 1438 003 | EJECT KNOB | |
| 20 | 113 1438 029 | EJECT KNOB | (Gold) |
| 30 | 112 0515 131 | VOL. KNOB | |
| 21 | 112 0515 144 | VOL. KNOB | (Gold) |
| 31 | 112 0727 000 | VOL. KNOB (C) | |
| ⊚ 33 | 112 0727 013 | VOL. KNOB (C) | (Gold) |
| ♥ 33● | 103 9194 009 | FRONT ESC. ASS'Y | |
| 34 | 103 9194 012 144 9195 009 | FRONT ESC. ASS'Y | (Gold) |
| ● 34 ● | 144 9195 009 | FRONT PANEL | (0-14) |
| 35 | 103 1511 305 | FRONT PANEL | (Gold) |
| 36 | 463 0655 009 | CASSETTE SPRING | |
| 37 | 463 0659 005 | CASSETTE SPRING BOX SPRING (R) | |
| 38 | 103 9195 008 | CASSETTE WINDOW (A) | |
| | . 30 3 , 33 000 | ASS'Y | |
| | 103 9195 011 | CASSETTE WINDOW (A) | |
| 1 | | ASS'Y | (Gold) |
| 39 | 421 9007 007 | MINI DAMPER | (Gold) |
| • 40 | 414 0595 015 | EARTH PLATE | |
| ● 41 | 203 0325 067 | 1P CONTACT ASS'Y | A |
| | | | |

| Ref. No. | Part No. | Part Name | Remarks |
|----------|--------------|------------------|---------|
| 45 | 102 0434 406 | TOP COVER | |
| • | 102 0434 419 | TOP COVER | (Gold) |
| 101 | 473 7508 017 | 3×10 CBTS (P)-B | |
| 102 | 477 0262 006 | SPECIAL SCREW | |
| 103 | 473 7502 013 | 4×10 CBTS (P)-Z | |
| 104 | 473 7503 038 | 4×10 CTTS (P)-BK | |
| | 473 7503 041 | 4×10 CTTS (P)-NI | (Gold) |
| 105 | 473 7500 044 | 3×8 CBTS (P)-B | ,,,,,, |
| 106 | 473 7002 018 | 3×8 CBTS (S)-Z | - 1 |
| 107 | 473 7001 035 | 2.6×6 CBTS (S)-Z | |
| 108 | 477 0017 002 | 3 TWZ | |

WARNING:

- Parts marked with and/or shading have special characteristics important to safety.
 - Be sure to use the specified parts for replacement.
- (Gold) in the Remarks column refers with gold front panels.

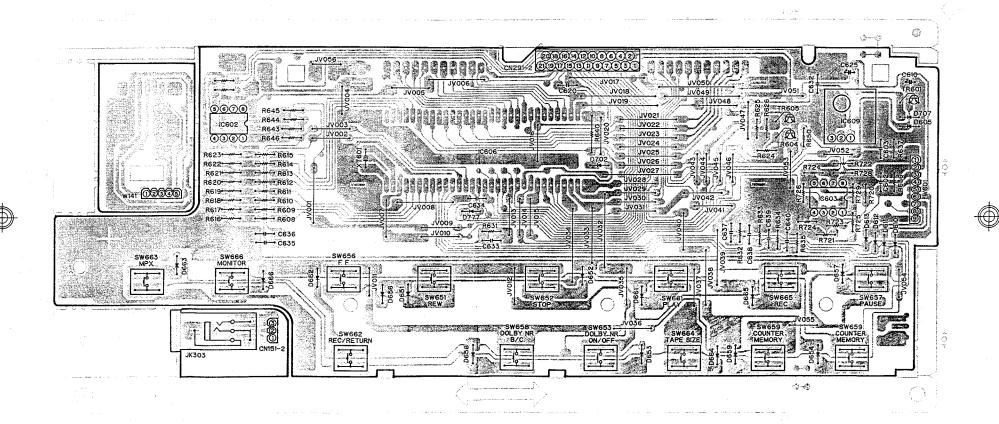
EXPLODED VIEW



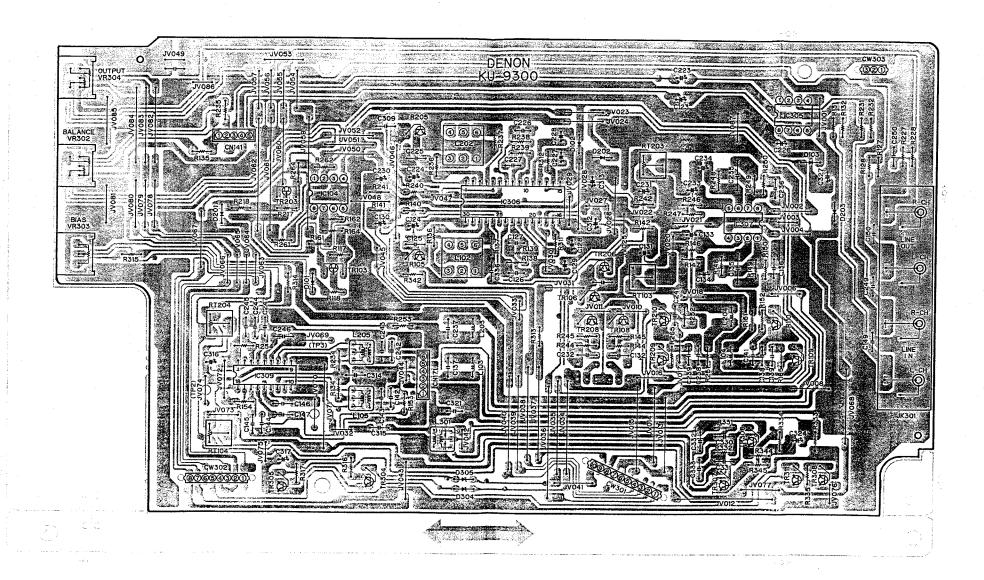
VARNING.

Parts marked with this symbol $\, \Delta \,$ $\,$ $\,$ $\,$ $\,$ $\,$ $\,$ have critical characteristics. Use ONLY replacement parts recommended by the manufacturer.

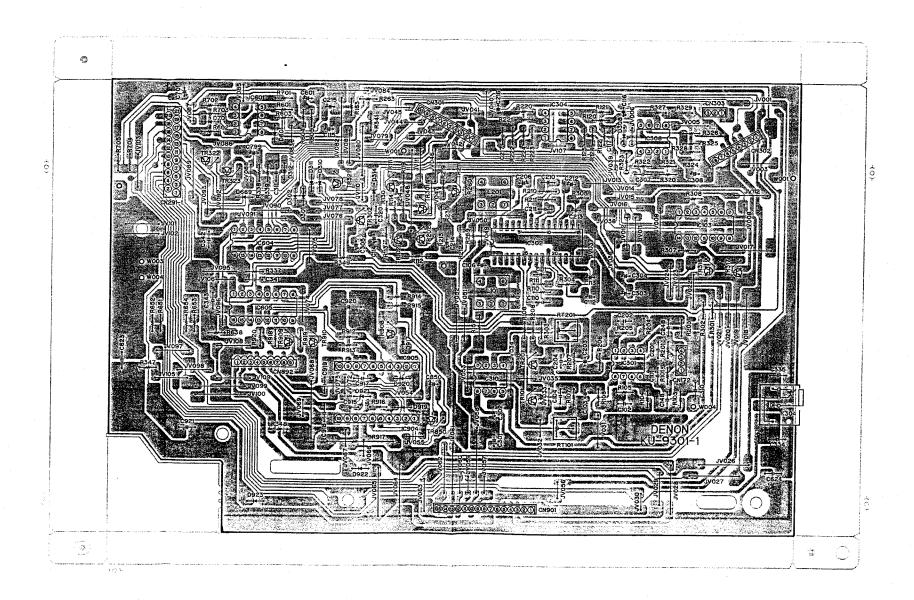
1 2 3 4 5 6 7 7 P.W. BOARD OF KU-2999 DISPLAY UNIT

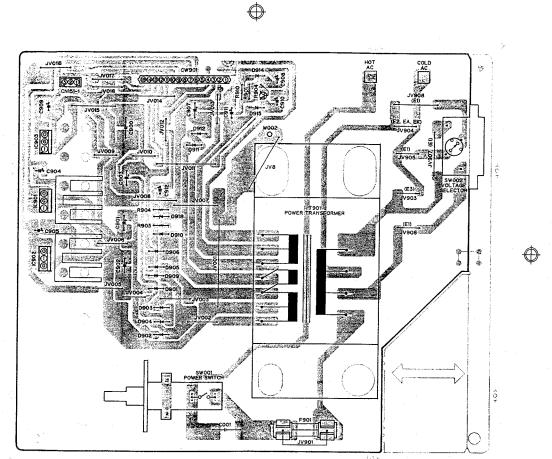


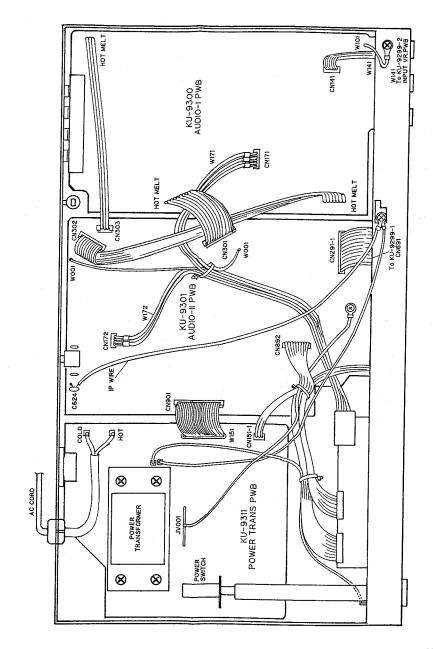
P.W. BOARD OF KU-9300 AUDIO1 UNIT



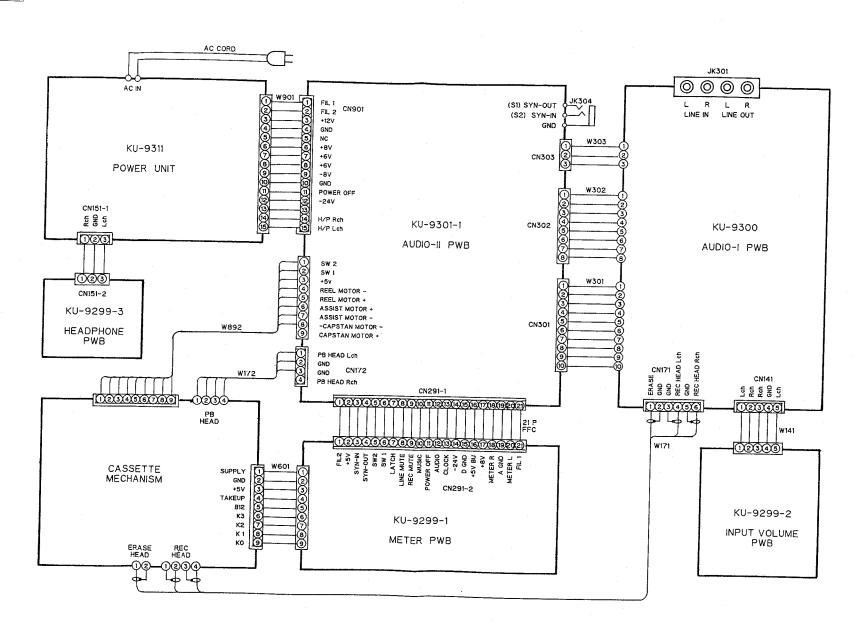
P.W. BOARD OF KU-9301 AUDIO2 UNIT

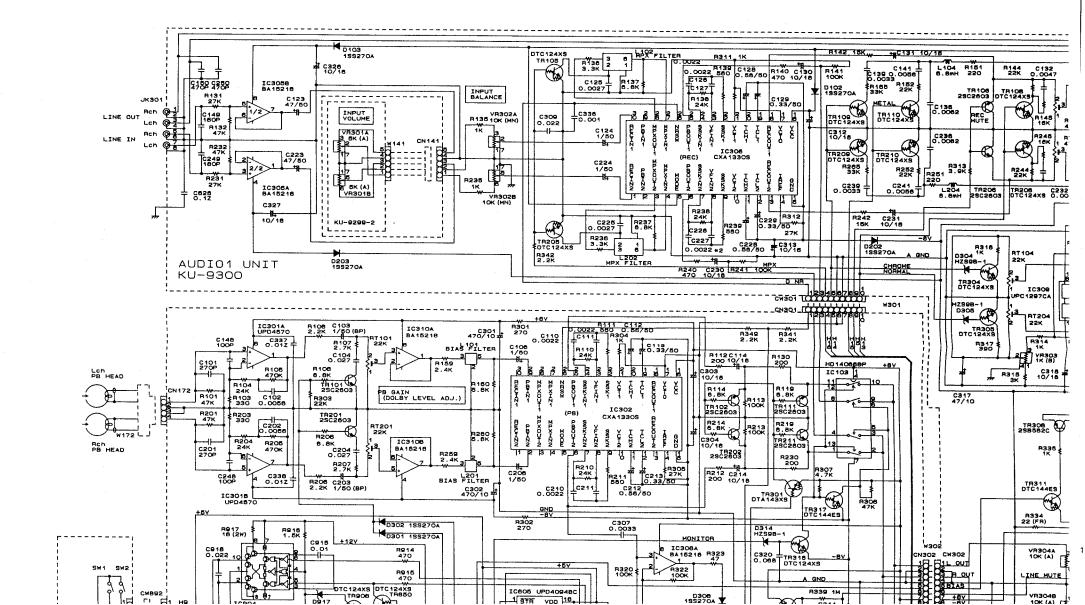


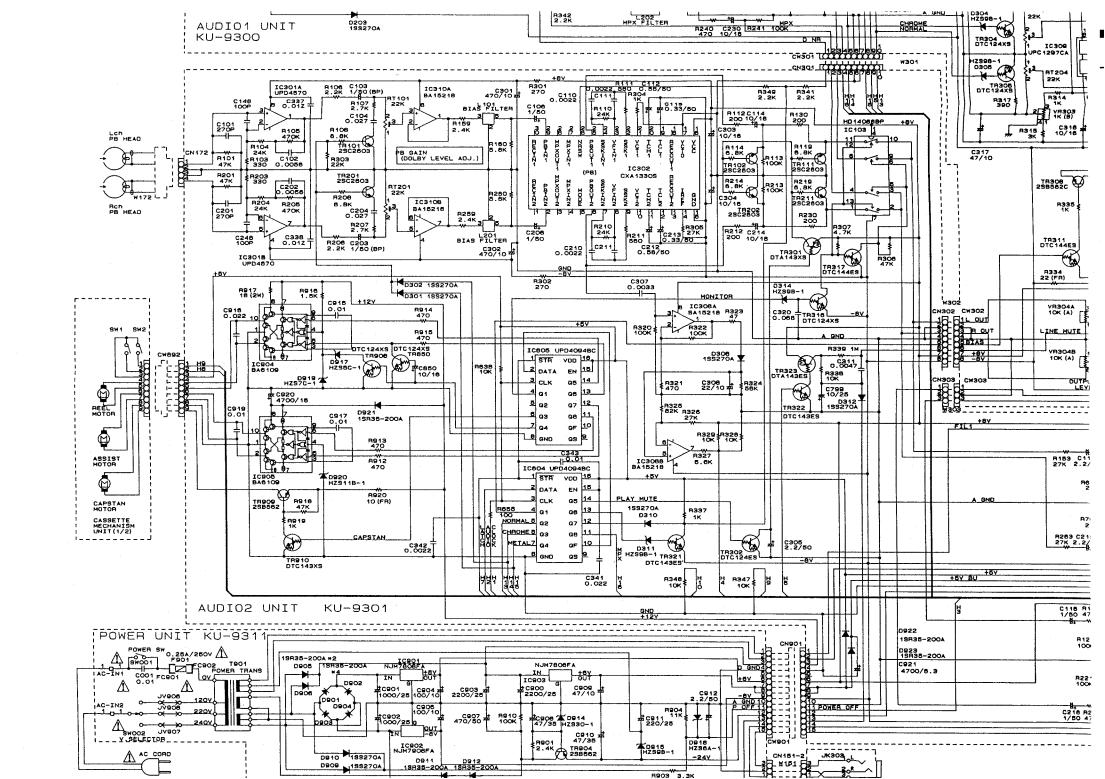


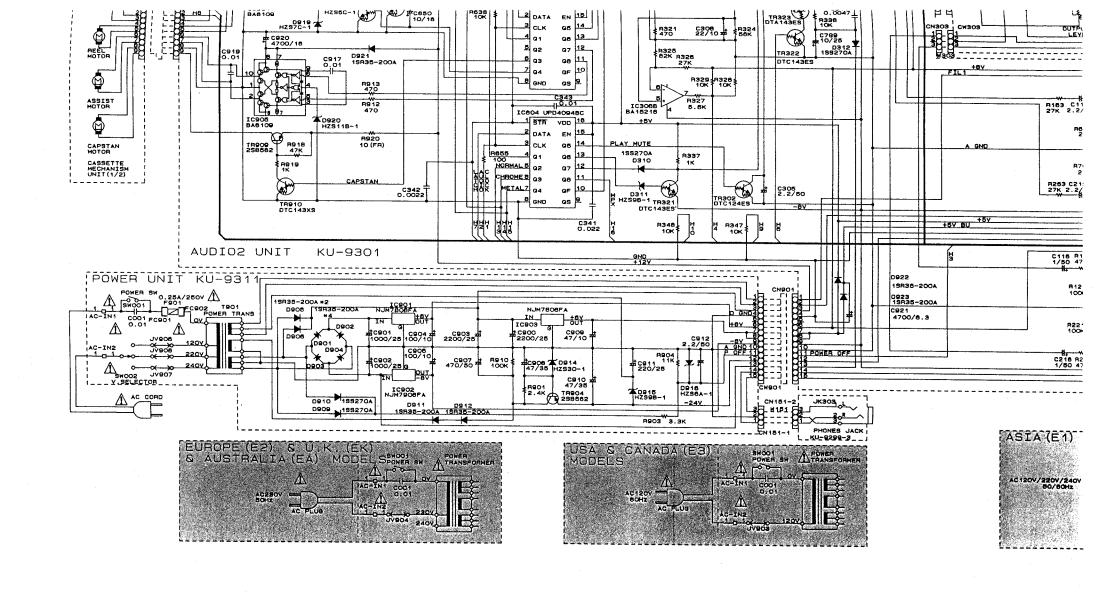


WIRING DIAGRAM









WARNING:

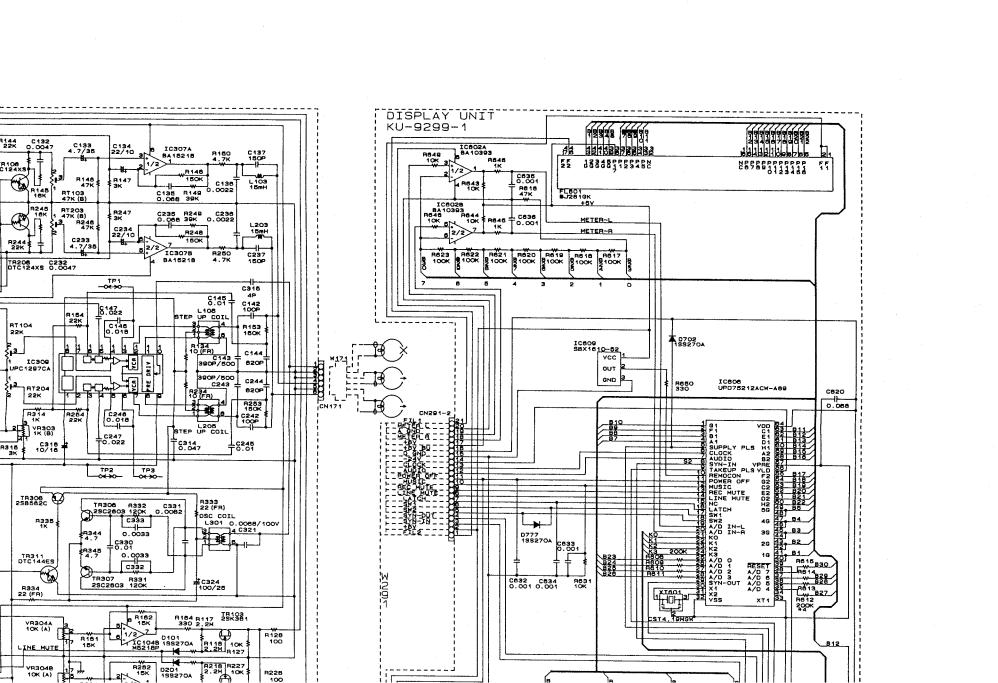
Parts marked with this symbol riangle have critical Use ONLY replacement parts recommended by the r

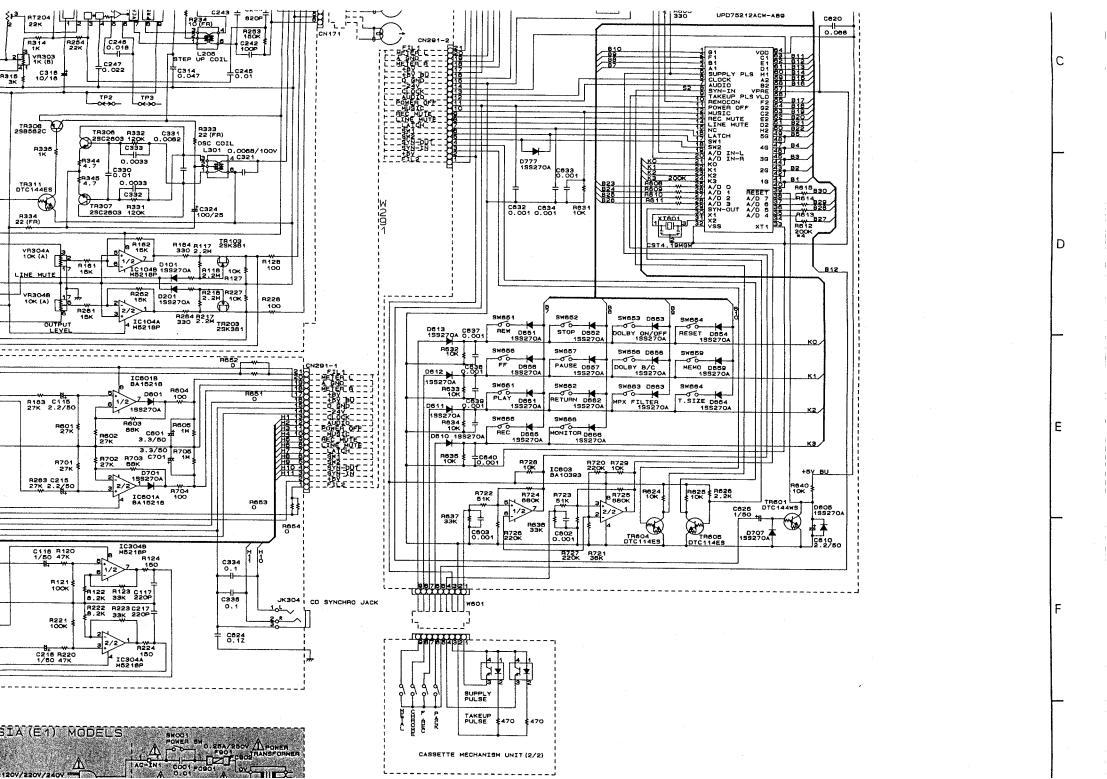
CAUTION:

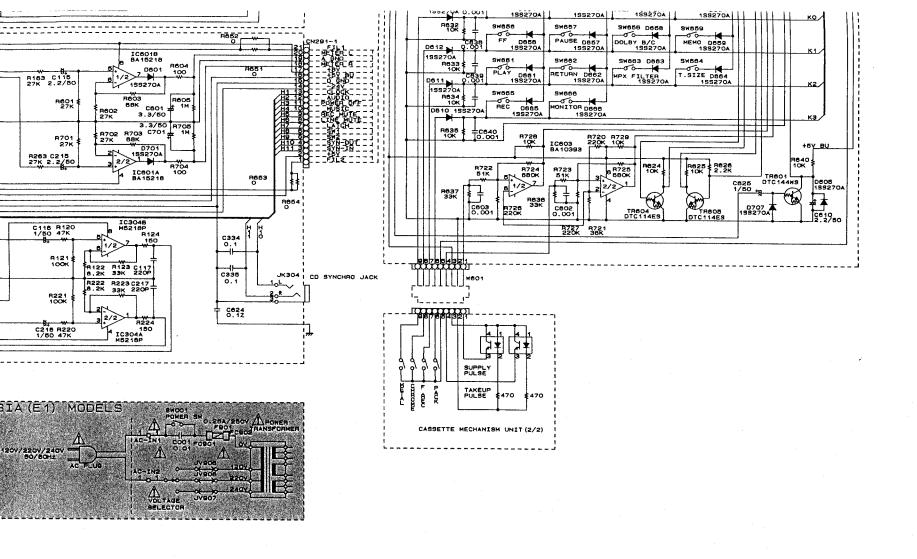
Before returning the unit to the customer, make sure check or (2) a line to chassis resistance check. If the or if the resistance from chassis to either side of the unit is defective.

..... 15 00101

WARNING:
DO NOT return the unit to the customer until the pro







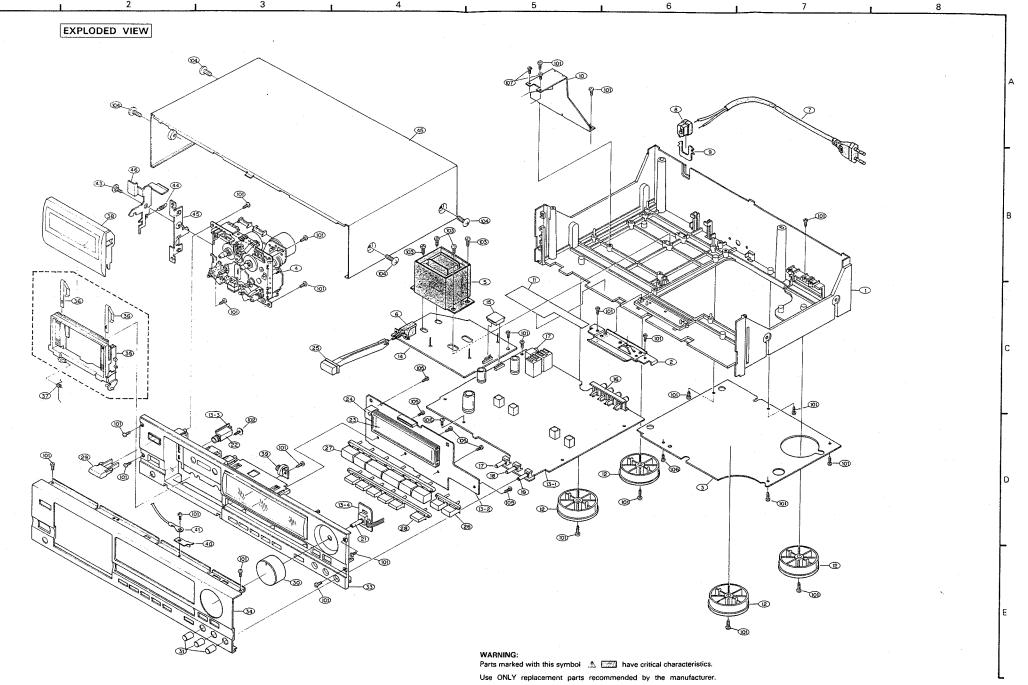
have critical characteristics. mended by the manufacturer.

omer, make sure you make either (1) a leakage current nce check. If the leakage current exceeds 0.5 miliamps, either side of the power cord is less than 240 kohms, the

mer until the problem is located and corrected.

NOTES

ALL RESISTANCE VALUES IN OHM. K=1,000 OHM, M=1,000,000 OHM ALL CAPACITANCE VALUES IN MICRO FARAD. P=MICRO-MICRO FARAD EACH VOLTAGE AND CURRENT ARE MEASURED AT NO SIGNAL INPUT CONDITION. CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.



EXPLODED VIEW OF CASSETTE MECHANISM UNIT

PARTS LIST OF CASSETTE MECHANISM EXPLODED VIEW

| Ref. No. | Part No. | Part Name | Remarks |
|----------|------------------------------|---|---------|
| 1 | 9DF 6121 74 | CHASSIS BASE BLK | |
| 3 | 9DF 5121 22 | PLATE BASE BLK | |
| 4 | 9DF R20L 22 | PINCH ROLLER ASS'Y | |
| 5 5-3 | 9DF 5252 84 9DF W15C 11 | MOTOR MAIN BLK MMN-6F4RB82 | |
| 5-5 | 9DF D47L 11 | PULLEY | |
| 5-6 | 9DF M177 22 | WHEEL CATCH SCREW | |
| 5-7 | 9DU G11S 14 | SCREW 2.6 × 3.5 ZN | |
| 5-8 | | | |
| 5-9 | 9DF J141 12 | W/RUMINA 1.9 × 0.25T | |
| 7 | 9DF C52H 13 | CASSETTE SPRING SH | |
| 8 | 9DF C57H 11 | P.C.B. BKT H REC DETECT LEVER | |
| 9 | 9DF D44T 14 9DF D44V 12 | METAL DETECT LEVER(L) | |
| 10 11 | 9DF D48Y 21 | GEAR A | |
| 12 | 9DF D49A 11 | GEAR B | |
| 13 | 9DF D49B 11 | GEAR C | |
| 14 | 9DF D49C 11 | BLAKE L | |
| 15 | 9DF D49D 12 | BLAKE R | |
| 16 | 9DF D48W 12 | CAM GEAR H | |
| 17 | 9DF C57G 12 | THRUST SPRING | |
| 18 | 9DF D49E 13 | B.T ARM | |
| 20 21 | 9DF R23F 11 9DF R23D 11 | PINCH ROLLER ASS'Y F/W T | |
| 22 | 9DF R23E 11 | ASS'Y F/W S | |
| 23 | 9DM M113 11 | STEEL BALL | |
| 24 | 9DF Z11Y 12 | FELT H | |
| 25 | 9DF K31A 11 | B.T SP | |
| 26 | 9DF K26S 14 | PINCH ROLLER SP (L) | |
| 27 | 9DF K26V 11 | H ADJUST SP | |
| 28 | 9DF J123 22 | W/RUMINA C 3.5 × 0.25 | |
| 29 30 | 9DF J141 11A 9DF J141 14A | OIL SHEEL 2.4 × 0.25 OIL SHEEL 2.15 × 0.25 | |
| 31 | 9DU G19G 11 | S TYTE SCREW M2.6 × 25 | 1.0 |
| 32 | 9DU G12H 14 | WAVE SCREW 2.6 × 8 ZN | |
| 33 | 9DU G12H 11 | WAVE SCREW 2.0 × 6 ZN | |
| 34 | 9DF J111 30 | POLY. WASHER 2.6 × 0.25 | |
| 35 | 9DU G22B 11 | SCREW TT 2.0 ×7 ZN | |
| 36 | 9DF K20R 12 | BLAKE SP | |
| 37 39 | 9DU G20L 12 9DF F16M 31 | NYLON NUT MAIN BELT | |
| 40 | 9DF L42C 11 | SPACER | |
| 41 | 9DF F18R 11 | BELT | |
| 51 | 9DF C39L 70 | EJECT LOCK ARM | |
| 52 | 9DW H62R 02 | HD CABLE (R/E) | |
| 53 | 9DW H62S 02 | HD CABLE (P.B) | |
| 61 | 9DF C33L 51 | DAMPER BKT | |
| 62 63 | 9DK G194 28 9DF C52P B1A | SCREW TT 2.6 ×4 ZN EJECT ARM (L) | |
| 64 | 9DF K29H 11 | EJECT LOCK SPRING | |
| 65 | 9DU G14M 11 | SPECIAL SCREW | |
| 66 | 9DU E16E 11 | PUSH SWITCH | |
| 68 | 9DA W12M 00 | REEL SENSOR | |
| 70 | 445 0033 005 | BUNDOLE BAND | |
| 71 | 9DK G194 29 | SCREW 2.6 ×5 ZN | |
| 72 | 9DF C57D 12 | HEAD BASE D | |
| 73 74 | 9DF D40L 13 9DF G140 24 | HEAD SPACER SCREW 32.0 ×8 NI | |
| 75 | 9DF K30W 11 | HEAD BASE SP H | |
| 76 | 9DF K30Y 11 | AZIMUS SP H | |
| 77 | 9DF U20D 11 | H-2381 | |
| 78 | 9DF U20C 11 | HAJAB3523A | |
| 79 | 9DF 5170 53 | IDLER BLK | |
| 80 | 9DF 5643 02 | MOTOR REEL BLK | |
| 81 | 9DF 6230 37 | REEL BASE BLK | |
| | 9DF 6230 59 | REEL BASE BLK | |
| 82 83 | 9DH C14C 12 | SCREW 2 6 V 10 7N | |
| 83 84 | 9DU G14C 13 9DF J111 17 | SCREW 2.6 × 10 ZN WASHER 1.7 × 0.25 | |

NOTE FOR PARTS LIST

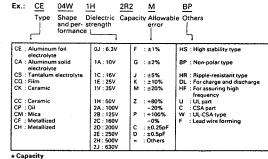
- Part indicated with the mark "⊙" are not always in stock and possibly to take a long period of time for supplying, or in some case supplying of part may be refused.
- When ordering of part, clearly indicated "1" and "1" (i) to avoid mis-supplying.
- Ordering part without stating its part number can not be supplied.
- Part indicated with the mark "*" is not illustrated in the exploded view.
- Not including Carbon Film ±5%, 1/6 W, 1/4 W Type in the P. W. Board parts list.
- Parts marked with this symbol
 A wasse have critical characteristics. Use ONLY replacement parts recommended by the manufacturer.
- · Refer to the following table for the codes of the resistors and capacitors appearing on the parts list.

Resistors

| ٦ | | <u> </u> | |
|---------------------|----------|----------|--------------------------|
| RD : Carbon | 28 : 'sW | F:±1% | P : Pulse-resistant type |
| RC : Fixed | 2E : '4W | G : ±2% | NL: Low noise type |
| RS :: Metallic film | 2H : '2W | J : ±5% | NB : Non-burning type |
| lW: Winding | 3A:1W | K:±10% | FR : Fuse resistor |
| N : Metal film | 3D : 2W | M: ±20% | F : Lead wire forming |
| K: Metal mixture | 3F : 3W | ļ | _ |
| | 3H : 5W | | 1 |
| | 3H : 5W | <u> </u> | <u> </u> |

• Units: Ω

Capacitors



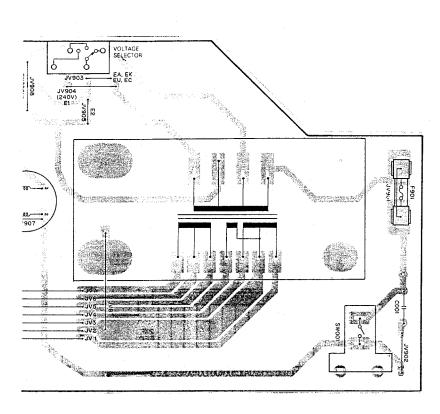
-1-digit effective number, decimal point indicated by R. -2-digit effective number, decimal point indicated by R.

 Units: μF, (for P, pF (μμF)
 When the dielectric strength is indicated in AC, "AC" is included after the dielectric strength value.

1 2 3 1 4 5 6 7

P. W. BOARD OF KU-9292 AUDIO/METER UNIT €305 KU-9292-2 R242 RT103 SW666 MONITOR VR301 INPUT VOLUME W141 (0000000) JV505 JV506 D658 D662 iceos DOOD NAS 201 PS 201 NAS 20 - JVI9 0000 |-0310 | 2 |0000 R918 -----

-2337 POWER SUPPLY UNIT

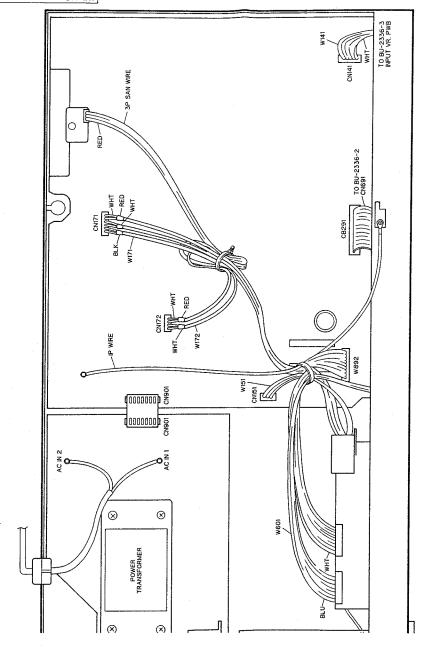


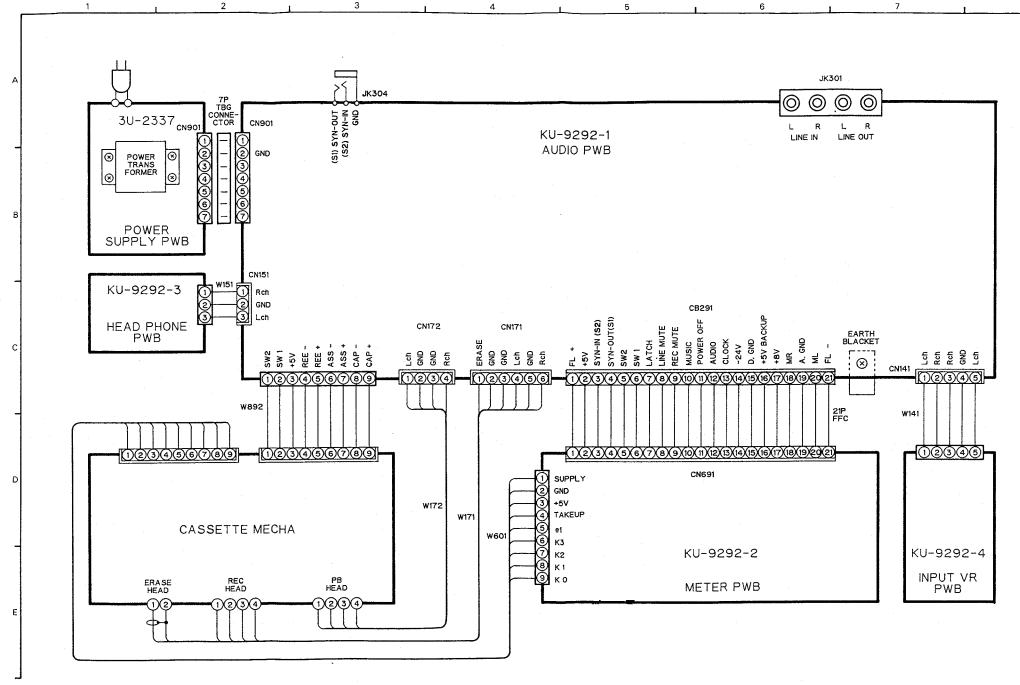
is the power circuit parts used for the 3U-2337 board by area.

, parts not used -.

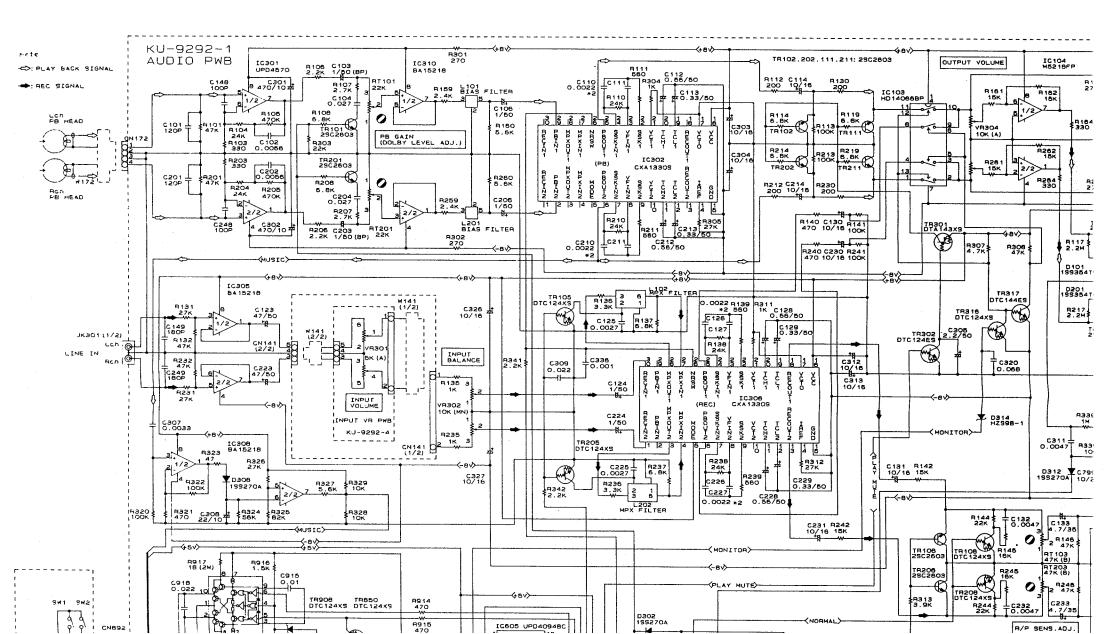
| ower Trans Part No. | Voltage Selector | FUSE F901 | JV901 | JV903 | JV904 | JV905 | JV908 |
|------------------------|---------------------|--------------|-------|-------|-------|-------|-------|
| 335756001 | _ | - | 0 | _ | _ | 0 | _ |
| 335760000 | 0 | 0 | _ | _ | 0 | | 0 |

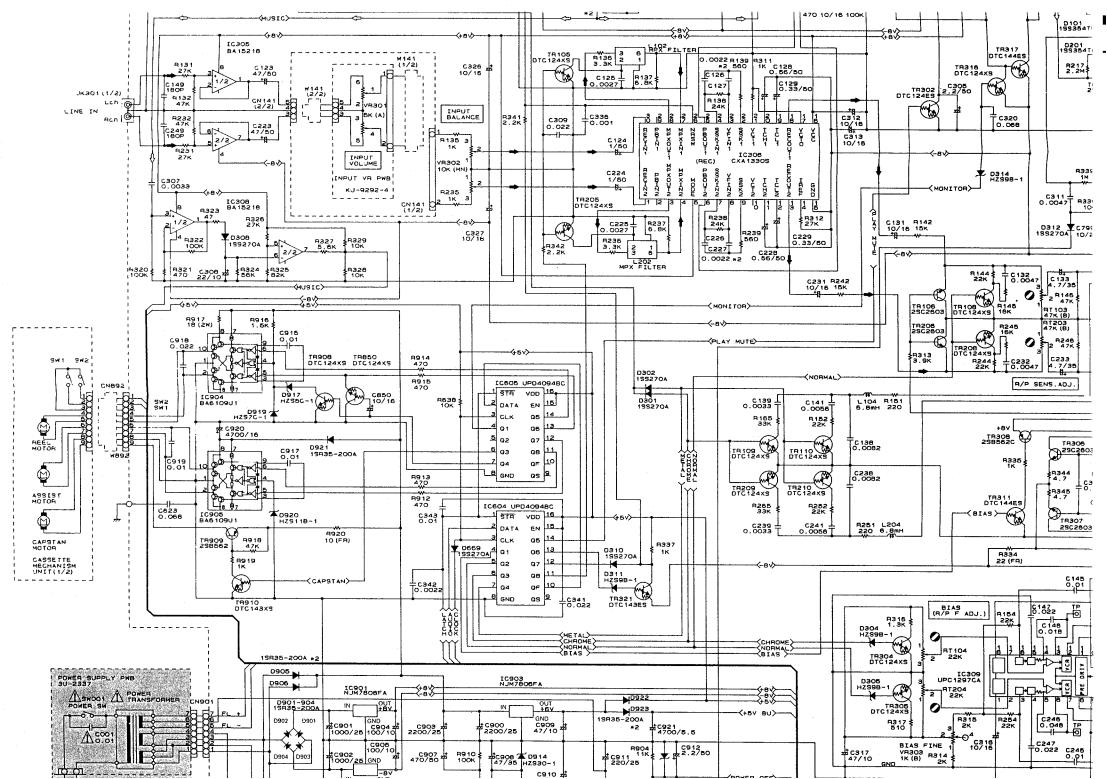
BUNDLE DIAGRAM

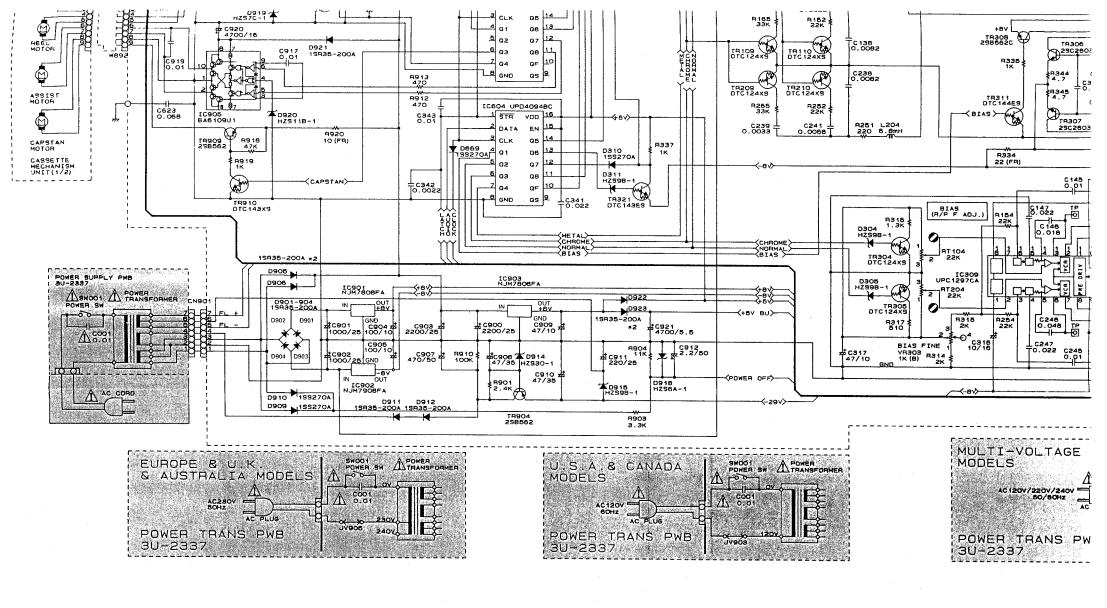




SCHEMATIC DIAGRAM







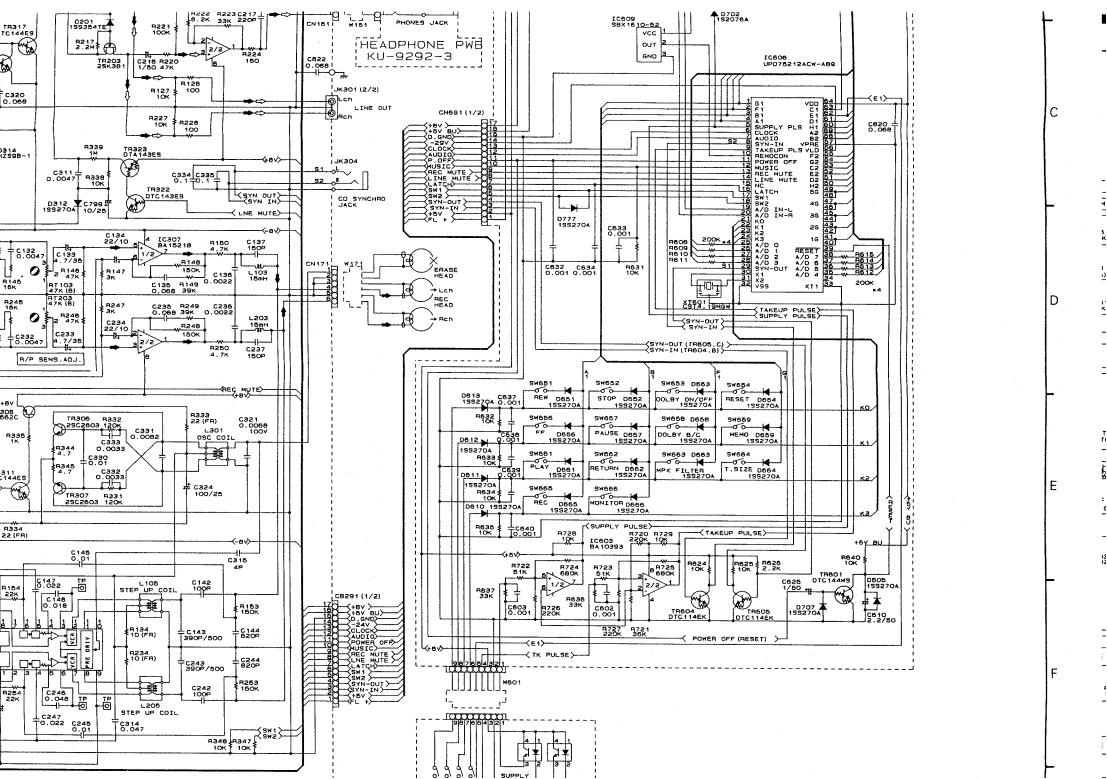
WARNING:

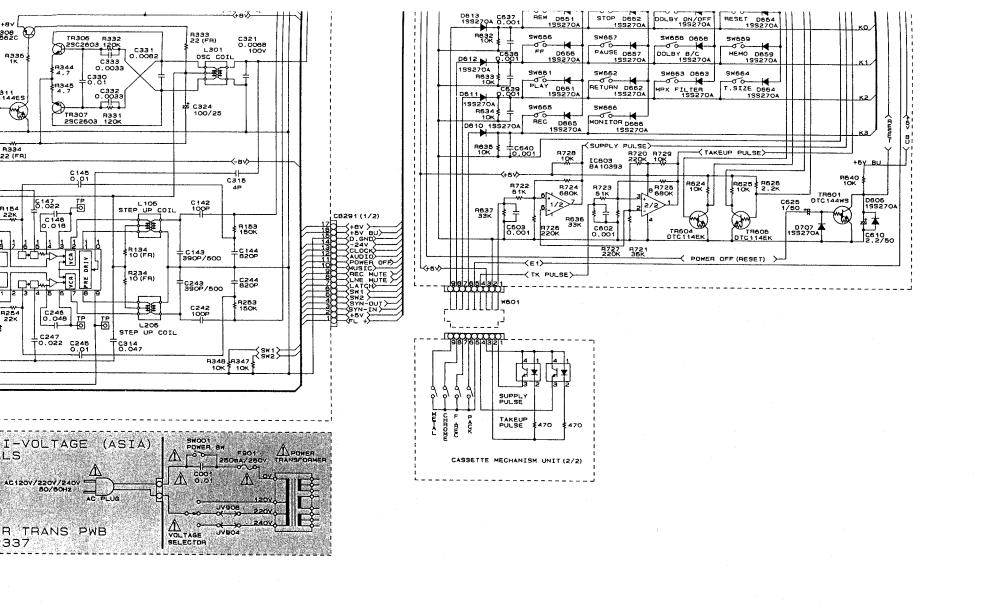
Parts marked with this symbol \triangle have critical chuse ONLY replacement parts recommended by the man CAUTION:

Before returning the unit to the customer, make sure yocheck or (2) a line to chassis resistance check. If the leak or if the resistance from chassis to either side of the povunit is defective.

MADNING.

DO NOT return the unit to the customer until the probler





have critical characteristics.

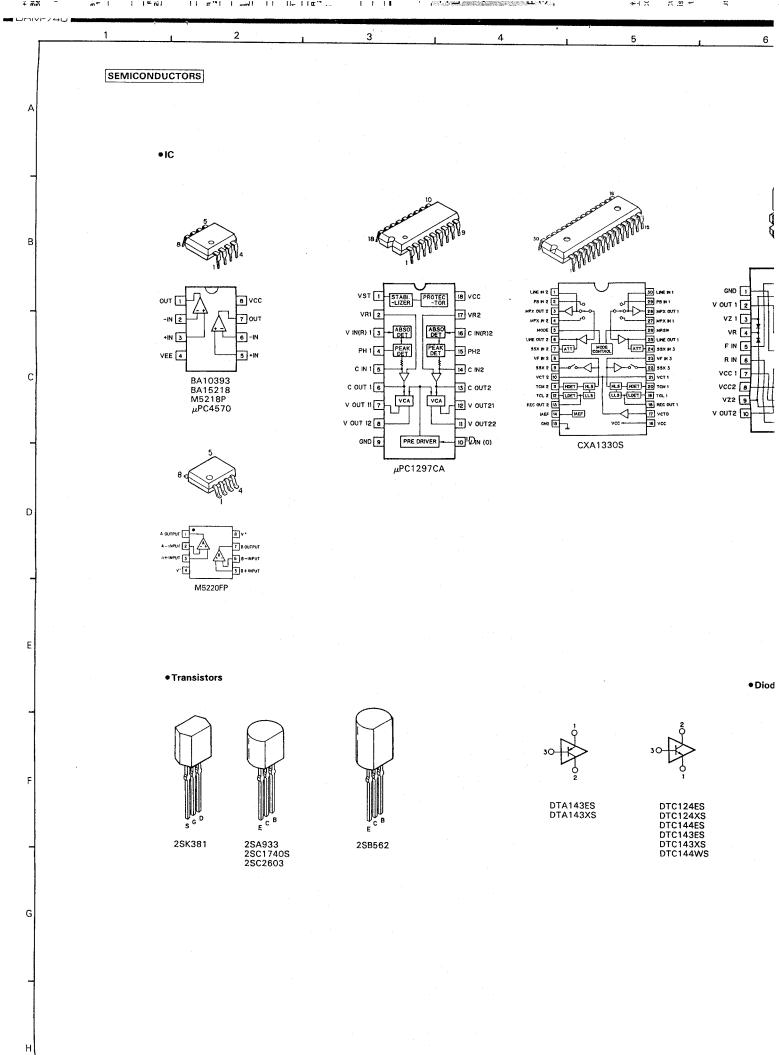
customer, meke sure you make either (1) a leakage current istance check. If the leakage current exceeds 0.5 miliamps, to either side of the power cord is less than 240 kohms, the

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16 VOD

14 05

13 Q6

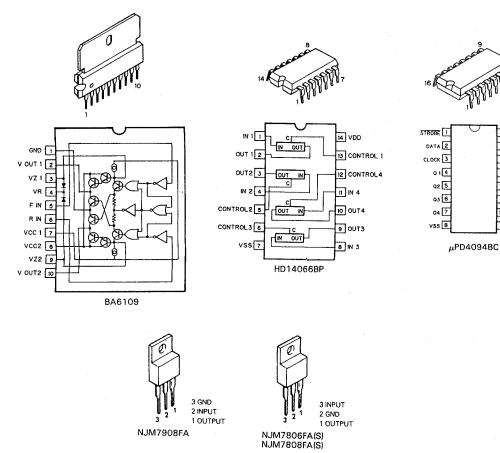
12 07

11 08

10 a's

9 0,

15 OUTPUT ENABLE





10

μPD75212ACW-A89

Diodes

6



ISS270A ISR35-200A

HZS3C-1 HZS7B-3 HZS5B-3 HZS9A-2 HZS6C-3 HZS11A-3 HZS27-3

S KS S S KS KS NS